

BULKY DOCUMENTS

(exceeds 300 pages)

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And Brenda Mueller

Certified Exhibits #'s 1 through 54 to Depositions Listed

Part 3 of 3

Device and Terminal Servers

Extending the Boundaries of Connectivity

Digi One TS
Digi One RealPort
Digi One SP
Digi One IA RealPort
Digi One Embedded
Digi Flex

PortServer TS

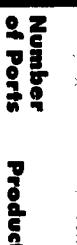
Today it is easy to connect any serial device to your network.

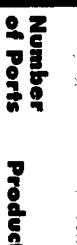
Digi's device and terminal servers combine the inherent benefits of data networking with proven asynchronous connectivity and provide Ethernet connectivity for virtually any serial device. They are easy to use devices that convert serial data to Etherne data. It is instant, easy and turns a previously isolated device with a serial port into a fully network-enabled component.

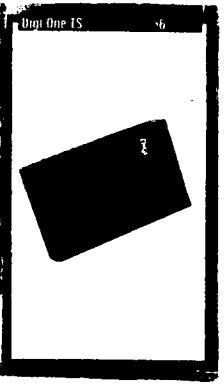
With traditional serial cards, the software driver residing on the host computer establishes a connection between the host computer and serial device with local COM or TTY ports through the physical serial cable. Although widely used and highly reliable, this solution has physical and functional limitations when compared to having the serial device being Ethernet-enabled.

Digi's patented RealPort technology provides virtual COM or TTY ports that deliver fully transparent and robust network connectivity for serial devices on the host computer - allowing existing applications to work with networked device servers instead of host adapters. This allows Digi device and terminal servers to provide a simple, easy migration path for moving serial devices from serial host adapters to fully Ethernet-enabled device servers with no application modifications and complete confidence.

The family includes products with powerful, universal functionality like that found in the Digi One TS and PortServer TS to dedicated features tailored for specific applications and customer needs like those in the Digi One IA RealPort or Digi One Embedded. Digi has the broadest line of device and terminal servers available to solve all your connectivity problems. They are ideal for a wide variety of applications including industrial automation, retail, transportation, building automation, or healthcare environments.

Number of Ports	Product
High-performance device server	
Standard device server	
Cost-effective device server	
Created specifically for the IA market	
Easy integration	
Universal two-port solution	
High-performance two-port device server	
High-performance terminal server	
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**Digi One TS****Digi One TS & Digi One RealPort**

The high-performance Digi One TS and Digi One RealPort allow you to connect serial devices simply and reliably to your Ethernet network. These products deliver advanced functionality including our patented RealPort technology which provides the virtual local COM or TTY ports on the host computer supporting communications between the host and networked serial device. The simplicity of installation and configuration makes taking your serial devices to the Ethernet easier than ever.

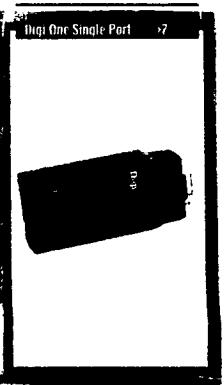
This makes the Digi One TS and the Digi One RealPort ideal for environments such as retail and building automation where Ethernet already exists and laying serial cable for asynchronous adapter use is cost prohibitive.

The Digi One TS features takes EIA-232/422/485 serial devices to the Ethernet. It also supports Powered Ethernet (802.3af), SSH v2, port buffering and flexible power input of 9-30Vdc.

The Digi One SP is easy to install locally or remotely through a variety of IP addressing methods. These include DHCP, RARP and ARP/Ping along with an application (provided on a CD shipped with the product) that will automatically detect all the Digi One SP devices on your network.

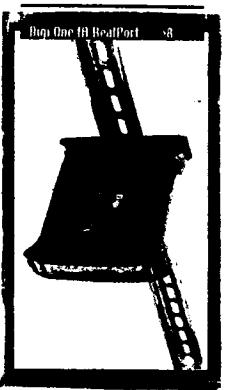
The Digi One SP provides easy serial tunneling over Ethernet, so replacing a serial cable could never be easier.

- 10/100Base-T
- Up to 230 Kbps data rate
- Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADP
- Patented RealPort technology for COM and TTY port management
- PPP
- Telnet and Reverse Telnet
- Easy configuration with browser (HTTP)
- Enhanced SNMP (read/write)
- Flash upgradable firmware
- Remote management/ diagnostics tool via Digi Port Authority-Remote
- Mounting brackets available (see page 41)

**Digi One SP****Digi One SP**

The Digi One SP device server easily allows any device with a serial port to be connected to the Ethernet. The compact design of the Digi One SP delivers cost-effective performance and capability in one of the smallest form factors available.

- 10/100Base-T
- DB-9 serial connector
- EIA-232/422/485 switch selectable
- Telnet/Reverse Telnet
- TCP Socket services
- UDP Socket services
- Extended Telnet RFC217
- Easy IP address assignment using Static, DHCP, RARP, or ARP/ping
- Simple configuration via web browser (HTTP)
- Flash upgradable firmware

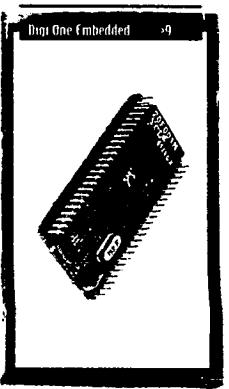


Digi One IA RealPort

Digi One IA RealPort
The Digi One IA RealPort device server was created to meet the specific requirements of the industrial automation market. It delivers simple, reliable, and cost-effective network connectivity for serial devices common in industrial automation environments and applications such as Programmable Logic Controllers (PLC), CNC/DNC equipment, process and quality control equipment, bar-code readers/scanners, operator displays, scales and weighing stations, printers, vision systems, and many other types of manufacturing equipment.

The Digi One IA RealPort supports industrial Ethernet protocols such as Modbus TCP, DF1 full- and half-duplex, Ethernet IP and Omron as well as the ability to configure parameters for other protocols. The Digi One IA RealPort provides the advanced functionality of multi-master/multi-protocol. This means users can have multiple protocols accessing the serial devices from multiple hosts on the network.

- 10/100Base-T Ethernet support
- DB-9 and screw terminal serial block connector
- Switch selectable EIA-232/422/485 interface
- Up to 230 Kbps data rate
- Flexible 9-30Vdc power input (screw terminal block)
- Powered Ethernet (802.3af) support
- DIN rail mounting
- Patented RealPort technology for COM and TTY port management
- LED status for all serial signals, power, Ethernet and diagnostics
- Easy IP assignment via Static IP, DHCP, RARP or ARP/Ping
- Easy web configuration (HTTP)
- Modbus/TCP, DF1, Ethernet IP and Omron protocols
- Telnet and Reverse Telnet
- TCP and/or UDP socket connections
- Enhanced SNMP (read/write)
- Remote management/diagnostics tool (see page 37)



Digi One Embedded

The Digi One Embedded
The Digi One Embedded family allows manufacturers to network-enable products at a fraction of the cost required to develop a custom solution. The family includes reliable and flexible single component solutions that provide fully transparent operation including an IEEE802.3 compliant Ethernet controller and robust on-board TCP/IP stack.

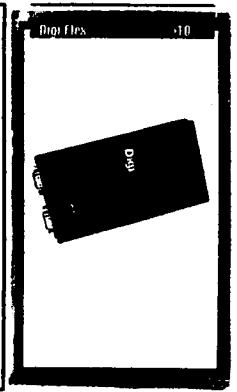
Models within the family are available in a variety of form factors to meet different application and design requirements:

- The Digi One Embedded Telnet, TCP Server, TCP Client, and UDP are highly specialized and are offered in a compact DIL48 based design with four firmware versions to support specific functionality.
- The Digi One Embedded SP is the ideal choice for any application where flexible and customizable performance is needed and allows for easy integration into a variety of network environments.
- Easy IP address assignment using Static, DHCP, RARP, or ARP/ping
- Simple configuration via web browser (HTTP)
- TTL serial interface
- 10/100Base-T

- Embedded TCP/IP Stack
- Network configurable
- Telnet/Reverse Telnet
- Full TCP/UDP Socket service support
- Extended Telnet RFC2217
- Easy IP address assignment using Static, DHCP, RARP, or ARP/ping
- Simple configuration via web browser (HTTP)
- TTL serial interface
- 10/100Base-T

- Embedded TCP/IP Stack
- Network configurable
- Telnet/Reverse Telnet
- Full TCP/UDP Socket service support
- Extended Telnet RFC2217
- Easy IP address assignment using Static, DHCP, RARP, or ARP/ping
- Simple configuration via web browser (HTTP)
- TTL serial interface
- 10/100Base-T

Device and Terminal Servers



Dígitos
10

The highly versatile Digi Flex allows you to connect serial devices simply and reliably to your Ethernet network. The two-port solution delivers advanced functionality including our patented RealPort technology which provides the virtual local COM or TTY ports on the host computer to support communication between the host and networked serial device. In addition to our RealPort technology, the Digi Flex features switch selectable EIA-232/422/485 device interfaces on both ports, Powered Ethernet (802.3af) support and flexible power input of 9-30Vdc.

- DB-9 serial port connectors
 - Switch selectable EIA-232/422/485 interfaces
 - Up to 230 Kbps data rate
 - Easy IP assignment via Static IP, DHCP, RARP
 - Easy installation and configuration with browsers (HTTP)
 - Routing functionality including RIP 1 & 2, Embedded firewall, and static routing
 - PPP
 - Secure encrypted data transfer via SSL and HTTPS
 - Telnet and Reverse Telnet
 - Flash upgradable firmware
 - Enhanced SNMP (read/write)
 - Remote management/ diagnostics tool (see page 37)
 - Integrated internal V.90 modem (optional)
 - DIN rail kit available (optional)

All PortServer 13, 8 and 16 model and MEI versions of the PortServer TS 2 and 4 provide the added benefit of SSH v2 and port buffering. These features provide a greater level of security and administrative support for local and remote management of Cisco Routers, Sun Servers, 3Com Switches and more.



- Console management enhanced features on PortServer TS 2 and 4 (MEI models), 8 and 16
 - SSH v2
 - Port buffering
 - 10/100Base-T (auto-sensing)
 - RealPort drivers for Windows 2000, Windows NT and UNIX provide local COM port and TTY functionality
 - Solaris certified (no Sun break issues)
 - Support for Rlogin, Telnet and Reverse Telnet on each port

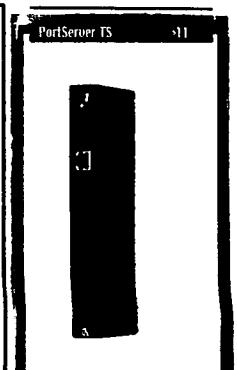
Overall, the high-performance Digi Flex provides the most comprehensive feature offering available for a two-port device server to meet the application needs of today and the future.

- Digi Flex
 - Digi Flex with integrated V90 modem



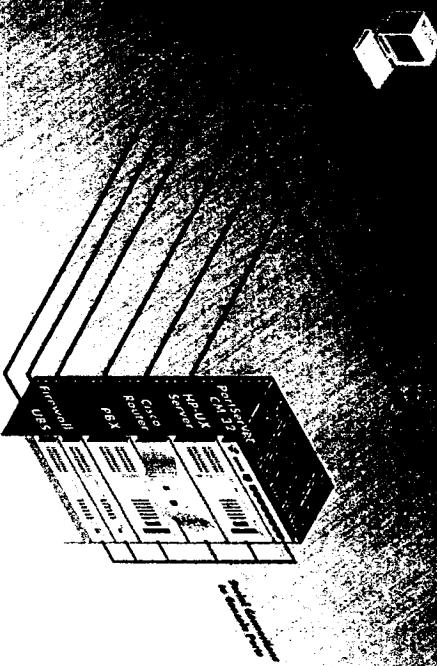
PortServer TS

The PortServer TS Family of terminal servers deliver simple, reliable and cost-effective network serial connectivity from two to 16 ports per IP address. PortServer TS allows a hardware independent way to allow



Polarized Light

- PortServer TS 16 Rack (fits 19 in. and 23 in. rack)**
PortServer TS 16 Rack (36 - 72 VDC)
For additional cables, see page 39.



Secure Console Management

The Simple, Secure Path to Maximum Network Uptime

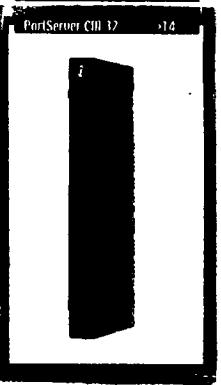
Today Digi's Console Management products provide secure access to the console port of Sun servers, Cisco routers and other network infrastructure equipment. Console management reduces the overall cost of maintaining local and remote data centers by reducing or eliminating travel time to the remote site and speeding maintenance/recovery for both locations. Better control means increased uptime and lower costs.

Rapid Install makes installation and configuration a 30-second process, using a web browser and tiny applet to quickly assign network settings.

The PortServer CM 32 has been certified "Solaris Ready" by Sun Microsystems, guaranteeing against unintentional break signals and ensuring compatibility with Sun equipment.



Console Management Server



PortServer CM 32

PortServer CM 32

The PortServer CM 32 provides secure access to the serial console ports of Sun servers, Cisco routers, Ethernet switches, intelligent power supplies and PBXs.

Security: Encryption is handled by Secure Shell (SSH v2 and v1), a robust, standards-based security protocol, designed to protect networks against unauthorized monitoring, i.e. sniffing. This same level of security is present in the secure HTTPS Web user interface. The PortServer CM also permits access to users on a per port basis. Access to the PortServer CM may be further restricted through the use of the firewall functionality of the IP filtering feature.

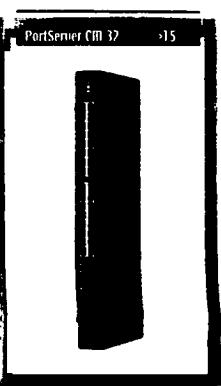
Data Collection: 128 Kbps of port buffering allows data center managers to monitor any activity on the ports, capturing important information from each port for troubleshooting in the event of a problem. Captured data may be held locally or stored on another host, using syslog or an NFS mounted partition.



Features

PortServer CM 32

- Secure Shell (SSH v2 and v1) for data encryption
- HTTPS for secure configuration
- IP-filtering to restrict access
- Solaris Ready, does not send unintentional break signals
- Port buffering to capture critical data
- Multi-level menuing for user specific access
- Auto alerts for customized alarm monitoring and notification



PortServer CM 32 (back)

Ease of Use: The PortServer CM 32 provide the highest level of secure access but also features a powerful Auto Alert system that instantly notifies network managers of system errors or failures. The customizable system continuously monitors the console ports of servers, routers and other network equipment, detecting predefined messages and automatically generating detailed email alerts. Alerts are sent directly to a network manager's cell phone, pager or PDA for immediate response. Rapid notification of system errors is a key factor in maximizing network uptime.

All cables required to connect to any standard DB-25, DB-9 or RJ-45 Sun Netra server can be ordered with the box, reducing the initial set-up time to a minimum. (see page 39)

Part Numbers PortServer CM

- PortServer CM 32
- PortServer CM 16

For optional cables, see page 39.

USB Connectivity

Extending the Boundaries of Connectivity

Edgeport

AnywhereUSB
Wavespeed/LAN

USB Camera
Rapidport

Hubport

Accessories



A Digi International Company

Enterprise USB Connectivity

Inside Out Networks, a Digi International Company, is the leader in enterprise USB connectivity, offering simple-to-install, high performance solutions for attaching serial, parallel, USB and modem devices to PCs, thin clients and servers via USB port expansion. Their unmatched operating system support (Windows NT 4.0, NT Embedded, CE, XP, XP Embedded and more) and feature-rich design make our USB solutions ideal for mission-critical environments like point-of-sale, industrial automation, kiosks, and mobile connectivity, in which reliability and data integrity are essential.

Edgeport

Out-of-the-box alternative to serial cards for scalable I/O expansion. Add multiple serial, parallel and USB ports to a PC, thin client or server in minutes for flexible peripheral device connectivity. Operating system support includes Windows NT, XP, CE, 2000 and more.

AnywhereUSB

Remote I/O concentrator utilizes USB Over IP™ technology to connect USB devices anywhere on an existing wired or wireless LAN – without a locally attached host PC.

Wavespeed/LAN

USB-to-802.11b wireless Ethernet adapter with Windows NT 4.0 and CE compatibility.

USB Camera

High-performance digital PC camera with Windows NT 4.0 support.

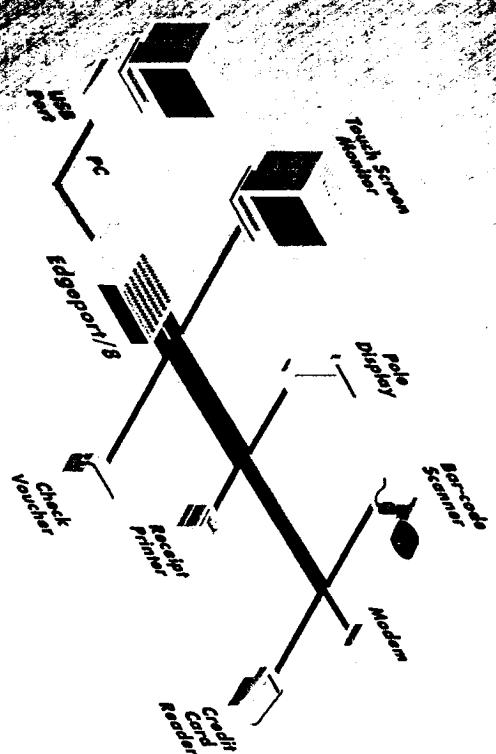
Rapidport

USB-to-four port modem gives users access to ISP, fax and other dial-up group applications supported by Windows NT RAS.

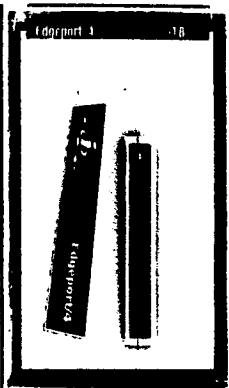
Hubport

Industrial-grade USB hubs to power USB peripheral devices or additional IO Networks USB connectivity solutions.

USB Point-of-Sale



USB-to-Serial Converters



Edgeport/4

Features

- **Edgeport** One-, two-, four-, eight- and 16-port models provide flexible, scalable I/O expansion
- Plug-and-play installation
- Drivers for Windows 95, 98, SE, 2000, Me, NT 4.0, NT Embedded, XP and XP Embedded; Linux and Macintosh

- Rack-mountable
- User-installable solution reduces IT overhead
- Robust solution for mission-critical environments
- 230 Kbps per port

Edgeport USB-to-serial converters offer an out-of-the-box alternative to serial cards, allowing the connection of multiple serial, parallel and USB peripheral devices to a PC, thin client or server via USB port expansion. Users may add up to 16 additional ports of external serial connectivity in three minutes, without opening the chassis or reconfiguring and rebooting the system. Unmatched operating system support (Windows NT 4.0, XP, CE, 2000 and more), plug-and-play installation and high-speed port performance make the Edgeport an ideal solution for mission-critical environments such as point-of-sale, kiosks and industrial automation, in which reliability and data integrity are essential.

USB-to-Serial Converters



Edgeport/1

The Edgeport/1 USB-to-serial converter is the newest member of the Edgeport Family of enterprise USB connectivity solutions. One-sixth the size of our Edgeport/2, this single port solution is merely a bump in the cable, yet it has the same reliability, performance and OS support (including Windows NT 4.0) that Edgeport users expect. It is ideal for mission-critical applications like point-of-sale and mobile computing in which space is limited and flexible I/O expansion is required.

Features

- **Edgeport/1** One high-speed EIA-232 DB-9 serial port
- Supports Windows NT, XP, 2000 and more
- Bulk pricing available

Part Numbers

Edgeport Serial Converters

	North America	International
• Edgeport/1 (USB to 1 EIA-232 serial, DB-9 port)*	301-1001-11	301-101-11
• Edgeport/2 (USB to 2 EIA-232 serial, DB-9 ports)	301-1000-02	301-1000-02
• Edgeport/4 (USB to 4 EIA-232 serial, DB-9 ports)	301-1000-04	301-1000-04
• Edgeport/4/DB-25 (USB to 4 EIA-232 serial, DB-25 ports)	301-1016-01	301-1016-01
• Edgeport/8 (USB to 8 EIA-232 serial, DB-9 ports)	301-1002-08	301-1002-08
• Edgeport/4/16/DB-9 (USB to 4 USB, 16 EIA-232 serial, DB-9 ports, rack mountable)	301-1000-10	301-2000-10
• Edgeport/4/16/DB-25 (USB to 4 USB, 16 EIA-232 serial, DB-25 ports, rack mountable)	301-1016-16	301-2016-16

Edgeport Industrial Converters

- Edgeport/2i (USB to 2 EIA-422/485, serial DB-9 ports)
- Edgeport/4i (USB to 4 EIA-422 serial, DB-9 ports)
- Edgeport/8i (USB to 8 EIA-422 serial, DB-9 ports)

Edgeport Multi-Interface Converters

- Edgeport/2/1 (USB to 2 port EIA-232 serial, 1 parallel)
- Edgeport/4/2/1 (USB to 4 USB, 2 port EIA-232 serial, 1 parallel)

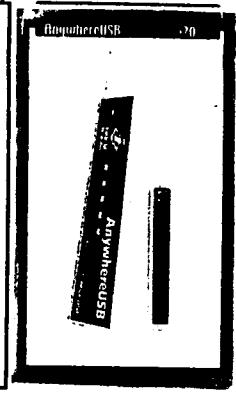
Edgeport Mac Serial Converters

- Edgeport/2/Mac (USB to 2 EIA-232 serial, DB-9 ports)
- Edgeport/2/Mac/DB-9 (USB to 2 EIA-232 serial, DB-9 ports)
- Edgeport/4/Mac (USB to 4 EIA-232 serial, DB-9 ports)
- Edgeport/4/Mac/DB-9 (USB to 4 EIA-232 serial, DB-9 ports)

* Call for bulk packaging and customized cable options.

USB Connectivity

USB Over IP™



AnywhereUSB

The AnywhereUSB Remote I/O Concentrator is the first remote networking solution to utilize USB Over IP technology, allowing the connection of USB devices anywhere on a wired or wireless LAN – without a locally attached host PC. This Ethernet-attached solution provides five USB ports to connect peripheral devices like cameras, printers or even our Edgeport USB-to-Serial Converters. Each USB device can be controlled from a remote PC or server via a TCP/IP LAN for greater flexibility and increased security. AnywhereUSB reduces space and ventilation requirements, allowing devices to operate in harsh environments. An ideal solution for enterprise applications like kiosks, industrial automation and surveillance.

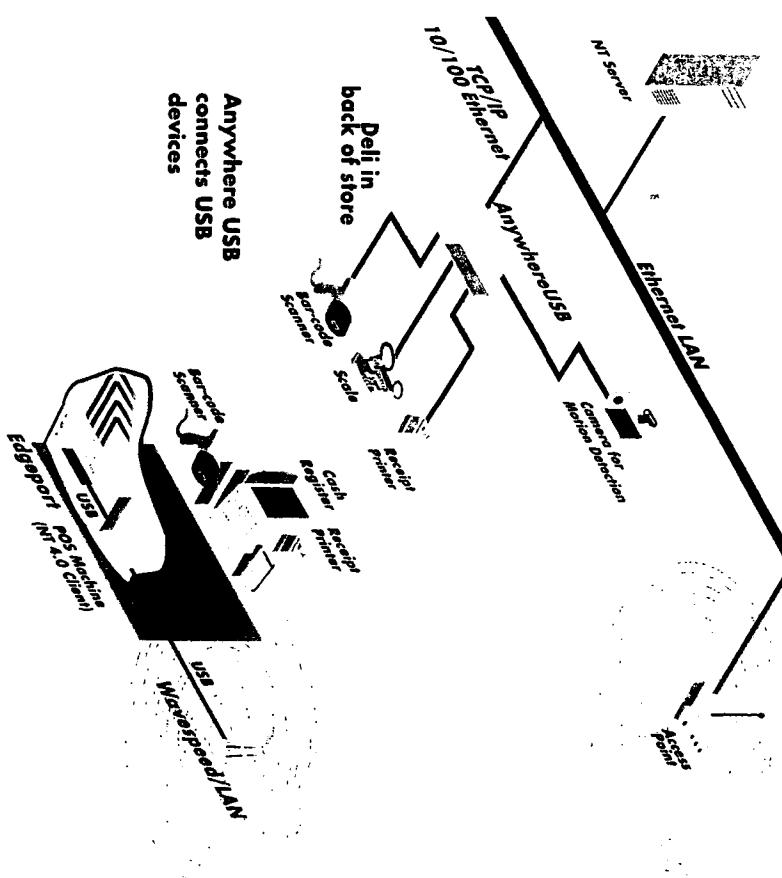
Features

- **AnywhereUSB**
- Remotely attach USB peripherals on existing or new TCP/IP LAN
- Eliminates PC on remote peripheral device side
- Reduces system space and ventilation requirements
- Works with CAT 5 or wireless networks
- Supports Windows NT, 2000 and XP

USB Connectivity

USB Over IP™

Point-of-Sale



USB Connectivity

USB-to-Wireless Ethernet



Wavespeed/LAN

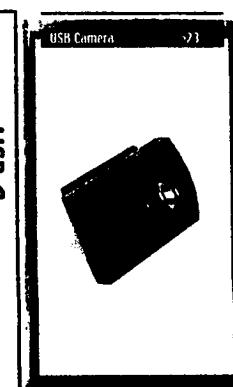
Wavespeed/LAN

The Wavespeed/LAN offers USB to wireless Ethernet expansion, combining the ease of plug-and-play USB connectivity with the flexibility and mobility of wireless networking. Fully compliant with the IEEE 802.11b wireless standard, the Wavespeed/LAN connects to a PC, laptop or thin client via the USB port to provide a high-speed wireless Ethernet connection – without the overhead associated with implementing a wired network. The Wavespeed/LAN is the first USB to wireless LAN adapter to support the full range of Windows platforms, including Windows NT 4.0, NT Embedded, XP and XP Embedded, making it an ideal solution for mission-critical applications like point-of-sale and mobile computing, in which reliability and data integrity are essential.

Features

- **Wavespeed/LAN**
- 802.11b compliant
- Supports both peer-to-peer (ad-hoc) and access point communication
- USB-powered - no external power supply required
- Use for mobile POS stations and kiosks to increase customer convenience
- Supports Windows NT 4.0, NT Embedded and more

USB Camera



USB Camera

USB Camera

The Inside Out Networks USB Camera, the first digital PC camera with Windows NT 4.0 support, is a cost-effective, high-performance solution for enterprise applications like kiosks, ATMs, mobile computing and others utilizing camera surveillance. With USB frame rates up to 60 fps, enhanced resolution up to 1280 x 960, and automatic low light adjustment (<1 lux), the USB camera delivers optimal picture quality. Plug-and-play installation means easy integration into any new or existing system.

Features

- **USB Camera**
- Equivalent to 3COM® HomeConnect™ PC Digital WebCam (Model # 3718)
- Streaming video utilizes VLC lossless compression technology
- Microsoft Video for Windows and TWAIN scanner software support
- Low light sensitivity and adjustable lens (<1 inch to infinity)
- Drivers for Windows 95(0SR2), 98, 2000, NT 4.0, NT Embedded, XP and XP Embedded
- USB-powered - no external power supply required

Part Numbers

Wavespeed/LAN

- Wavespeed/LAN (USB to Wireless Ethernet Adapter) 301-1117-01 N/A

North America

International

North America

International

Part Numbers

USB Camera

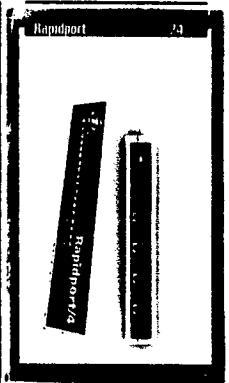
- USB Camera (USB Digital Camera) 301-9010-01 301-9010-01
- Lens Package 301-9015-01 301-9015-01

North America

International

USB Connectivity

USB-to-Multi-Modem



Rapidport

Rapidport is a plug-and-play USB modem device. It has four 56K/V.90 modems that can attach to any Microsoft server giving network users access to ISPs, fax and other dial-up group applications supported by Microsoft RAS.

Features

- Rapidport**
- Plug-and-play
- Four RJ-11 phone ports
- Broad homologation—approved for sale in most countries
- Supports Windows 95, 98, 2000, Me, NT 4.0, NT Embedded, XP, XP Embedded and Linux

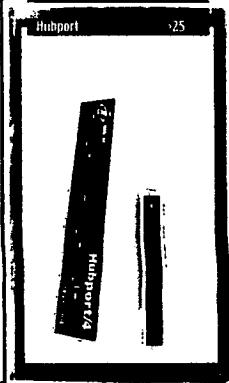
Extending the Boundaries of Connectivity

Part Numbers	North America	International
Rapidport	301-1012-04	301-2012-04

- Rapidport/4 (four K56Flex/V.90 modems, four RJ-11 phone)

Rapidport

USB Hubs



Hubport

The Hubport is an industrial-grade solution for adding USB ports to a PC or server. Available in four- and seven-port models, the Hubport can be used to connect USB peripheral devices, or to stack and power additional Edgeport and Rapidport converters to meet your ever-changing I/O connectivity needs.

Features

- Hubport**
- Industrial-grade USB hub
- Four- and seven-port models
- Individual port power management
- Stack and power additional Edgeport and Rapidport units
- Plug-and-play installation

Part Numbers	North America	International
Hubport	301-1010-04 301-1010-07 301-2010-07	301-2010-04 301-9000-01 301-9000-07 301-9000-06 301-9000-10 301-9000-02 301-9002-01 301-9006-01 301-9001-01 301-9003-01 301-9004-01

- Hubport/4 (4-port USB hub)
- Hubport/7 (7-port USB hub)
- USB Upgrade Kit (PCI to USB expansion card)
- 1M USB cable - 1 Meter (3.3 feet) A to B USB cable
- 2M USB cable - 2 Meter (6.6 feet) A to B USB cable
- 3M USB cable - 3 Meter (9.8 feet) A to B USB cable
- 4M USB cable - 4 Meter (13.1 feet) A to B USB cable
- 5M USB cable - 5 Meter (16.4 feet) A to B USB cable
- 5M USB repeater/extender cable
- USB to parallel printer cable
- Rack Mount Kit (19-inch shelf)
- Shelf Mount Bracket (mounts Edgeport/4 to any wall/shelf)
- Shelf Mount Bracket (mounts Edgeport/8 to any wall/shelf)

Multiport Serial Cards

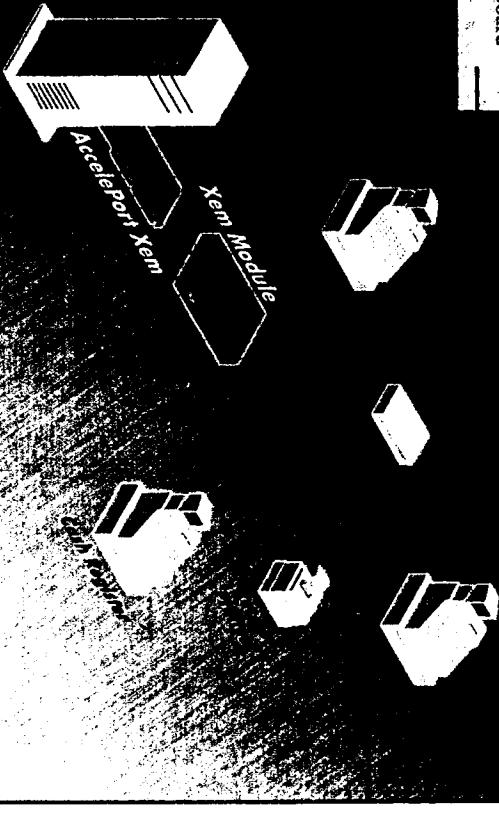
AccelePort XP

AccelePort CX

AccelePort Xe

Digi Neo

ClassicBoard



Multiport Serial Cards

The Digi multiport serial card product line is the #1 selling serial card product line in the world. It offers the highest level of operating system support, serial port capacity, I/O performance, transmission distance, environmental tolerance and upgradability for all your application needs.

High-Performance Serial Solutions

Powerful, professional-grade micro-processor-based products enabling fast, reliable and flexible connections for all applications.

AccelePort XP

Highly integrated, powerful RISC processor-based card provides the highest level of intelligence and the most advanced design available on the market. Provides speeds of 921.6 Kbps bi-directionally on all ports in two-, four-, eight- and 16-port PCI models.

Expandable Serial Solutions

External expandable systems using a single PC slot for high-port count applications and easy port count expansion.

AccelePort CX

Most widely used asynchronous cluster technology providing up to 128 ports for ISA or PCI platforms within 1000 feet (305 meters) from the host.

AccelePort Xe

Intelligent, cost-effective serial expansion system providing up to 64 ports within 10 (3.048 meters) feet from the host.

Enhanced Serial Solutions

Intelligent products for basic applications.

AccelePort Xe

Solutions for two-, four- or eight-port ISA platforms.

Digi Neo

Solutions for four- or eight-port PCI platforms.

Standard Serial Solutions

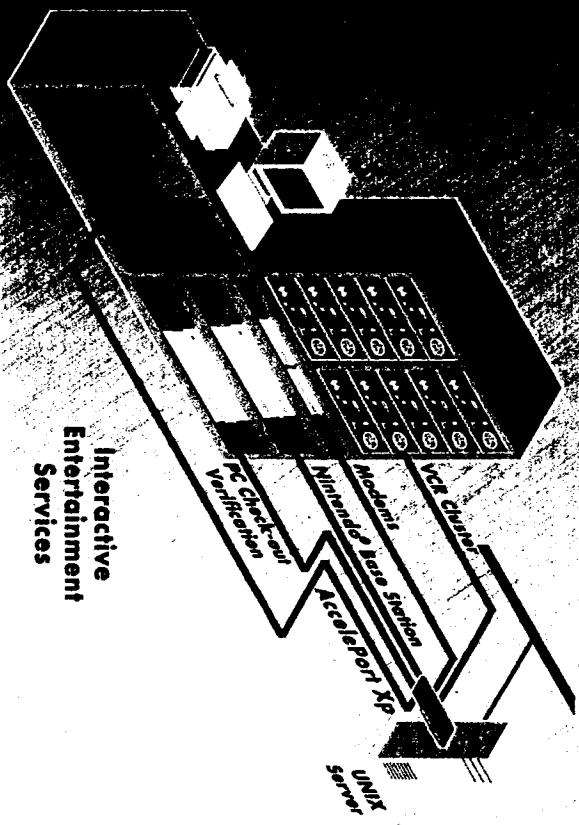
Products for basic applications not requiring on-board processing.

ClassicBoard

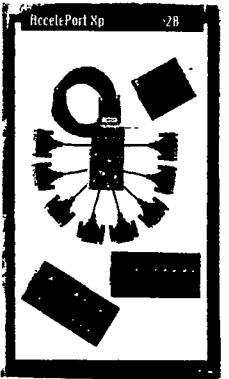
Cost-effective card provides four or eight ports for ISA or PCI platforms.

Hospitality

Interactive
Entertainment
Services



High-performance



AccelePort Xp

-28

The AccelePort Xp is a powerful, highly integrated RISC processor-based card that delivers the highest level of intelligence and most advanced performance available on the market. The advanced design includes:

- Small form factor and robust cabling ensures easy installation.
- PortAssist® Manager, Digi's powerful, browser-based management and reporting software.
- Complete customization for non-standard baud rates, flow control, IRQ or polling selectability and programmable latency level.

Features

AccelePort Xp

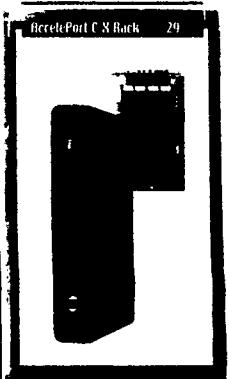
- PCI 2.2 compliant
- Supports both 3.3V and 5V
- EIA-232 connections
- Two to 16 ports provide wide application flexibility; scalable to 64 ports using four slots
- Simultaneously supports data speeds of 921.6 Kbps, bi-directionally, on all ports
- Industry leading multi-strike surge protection on all signals and ports
- Broadest range of operating system support available (see page 42).

(see page 42).

(see page 38).

Expandable

-29



AccelePort C/X System

-29

Delivering the highest level of serial I/O expansion capability, the C/X system is highly scalable for configuring direct LAN or multi-user solutions.

The basic system includes an intelligent, RISC-based asynchronous host card and a C/CON concentrator, providing eight or 16

surge-protected EIA-232 ports that can be daisy chained up to 1000 feet (305 meters) from the host or remotely connected via a variety of cabling options. A C/X system provides full front-panel diagnostic displays, an optional fiber optic connector kit for distances up to 1.25 miles (2 km) between concentrators and the host server, and remote connections to concentrators using synchronous models, CSU/DSUs and ISDN terminal adapters.

Features

AccelePort C/X

- PCI and ISA compatible
- Supports both 3.3V and 5V
- EIA-232 connections
- Supports up to 128 ports per slot within 1000 feet (305 meters) from the host
- Expansion via C/CON modules
- Supports speeds up to 115.2 Kbps
- Rack mount version (1U available)

Part Numbers

North America

International

AccelePort C/X - 232 PCI Bus

AccelePort Xp - 232 PCI Bus

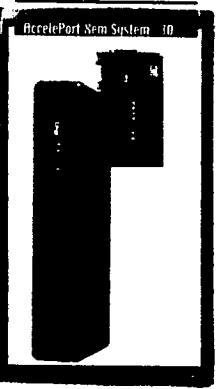
Part Numbers

North America

International

Multiport Serial Cards

Expandable



AccelePort Xem System

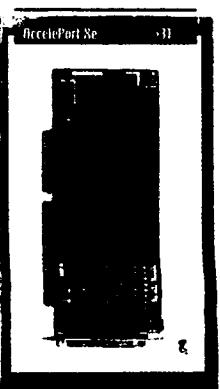
The AccelePort Xem system is Digi's most widely used multiport serial product. The AccelePort Xem is an expandable, intelligent system that delivers cost-effective serial I/O. The basic system includes an intelligent, asynchronous host card and a Digi PORTS module, providing eight or 16 surge-protected EIA-232 ports that can be daisy-chained up to ten feet (3 meters) from the host. The AccelePort Xem is also available in a 1U rack mount version.

Features

- **AccelePort Xem**
- PCI and ISA compatibility
- Supports both 3.3V and 5V
- EIA-232 and EIA-422 connections
- Supports up to 64 ports within ten feet (3 meters)
- Speeds up to 115.2 Kbps on up to 32 ports and 57.6 Kbps on more than 32 ports
- Expansion via PORTS modules (up to four); (see page 40)
- Rack mount version (1U) available

Extending the Boundaries of Connectivity

Enhanced



AccelePort Xe

The AccelePort Xe provides intelligent, cost-effective micro-processor-based control for ISA bus platforms. With proven performance, reliability and flexibility, the AccelePort Xe continues to be the most popular ISA bus multiport serial card solution for point-of-sale, industrial automation, data collection and many other applications.

Features

The AccelePort Xe supports speeds up to 115.2 Kbps, offers programmable options including IRQ or polling selectability and is available in both EIA-232 and EIA-422 models.

- Two-, four- or eight-port models scalable up to 32 ports for EIA-232 applications
- Four- or eight-port models scalable up to 32 ports for EIA-422 applications
- Supports speeds up to 115.2 Kbps on two ports

Part Numbers	North America	International
AccelePort Xem - 232 PCI Bus		
• AccelePort 8em system (RJ-45)	70001206	70001206
• AccelePort 8em system (DB-25)	70001208	70001208
• AccelePort 16em system (RJ-45)	70001201	70001201
• AccelePort 16em system (DB-25)	70001203	70001203
• AccelePort Xem host card only	77000455	77000455
• AccelePort 16em rack system (RJ-45)	70001757	70001757
AccelePort Xem - 422 PCI Bus		
• AccelePort 16em EIA-422 system (DB-25)	70001559	70001559

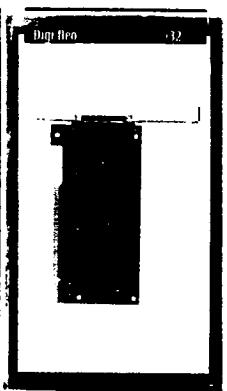
For ISA bus platform part numbers see URL below.

For additional PORTS modules and power supplies, see page 40.

*Cables sold separately - see page 38.

Multiport Serial Cards

Enhanced



Digi Neo

Digi Neo

The Digi Neo delivers intelligent control based on an integrated 32-bit ASIC delivering speeds exceeding 460.8 Kbps bi-directionally on each port. With its small form factor and robust cabling, the Digi Neo ensures that installation in today's smaller servers goes smoothly, while conserving space, reducing cable clutter and providing reliable connections.

Features

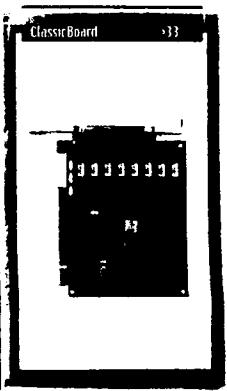
- **Digi Neo**
- PCI compatible
- Supports 5V only
- EIA-232 solutions
- Four- or eight-port models, scalable to 32 ports using four slots
- Supports speeds exceeding 460.8 Kbps bi-directionally on all ports
- Low profile PCI card

The Digi Neo provides an enhanced software monitoring and diagnostic tool for Windows operating systems and a similar tool for UNIX and Linux environments. These features, along with standard surge suppression and the availability of drivers for all the most popular operating systems, make the Digi Neo ideal for basic point-of-sale, industrial automation, kiosk and data collection applications.

Part Numbers	North America	International
Digi Neo	77000819 70001731 77000820 70001732	77000819 70001731 77000820 70001732

*Cables sold separately - see page 38.

Standard



ClassicBoard

The ClassicBoard supports both EIA-232 and EIA-422 connections and provides a wide variety of connector options (DB-25, DB-9 and RJ-45) to meet virtually every application or system requirement.

Features

- **ClassicBoard**
- PCI and ISA compatible
- Supports 5V only
- EIA-232 or EIA-422 (ISA only) connections
- Four- or eight-port models
- Supports speeds up to 115.2 Kbps on ISA platforms
- Supports speeds up to 460.8 Kbps on PCI platforms

Part Numbers

Part Numbers	North America	International
ClassicBoard - 232 PCI Bus		
• ClassicBoard 4*	77000576	77000576
• ClassicBoard 8*	77000578	77000578
ClassicBoard - 232 ISA Bus		
• ClassicBoard 4*	77000435	77000435
• ClassicBoard 8*	77000434	77000434
ClassicBoard - 422 ISA Bus		
• ClassicBoard 4 (w/DB-9 cable)	70001267	70001267
• ClassicBoard 4 (w/DB-25 cable)	70001269	70001269
• ClassicBoard 8 (w/DB-9 cable)	70001266	70001266
• ClassicBoard 8 (w/DB-25 cable)	70001268	70001268

*Cables sold separately - see page 38.

Multi-Modem Communication Adapters

AccelePort RAS

The AccelePort RAS Family of multi-modem analog adapters provides high-performance and cost-effective communication capabilities. It is an ideal choice for a wide variety of applications including Remote Access Services (RAS), fax connectivity, modem pooling, branch office gateways and data acquisition.

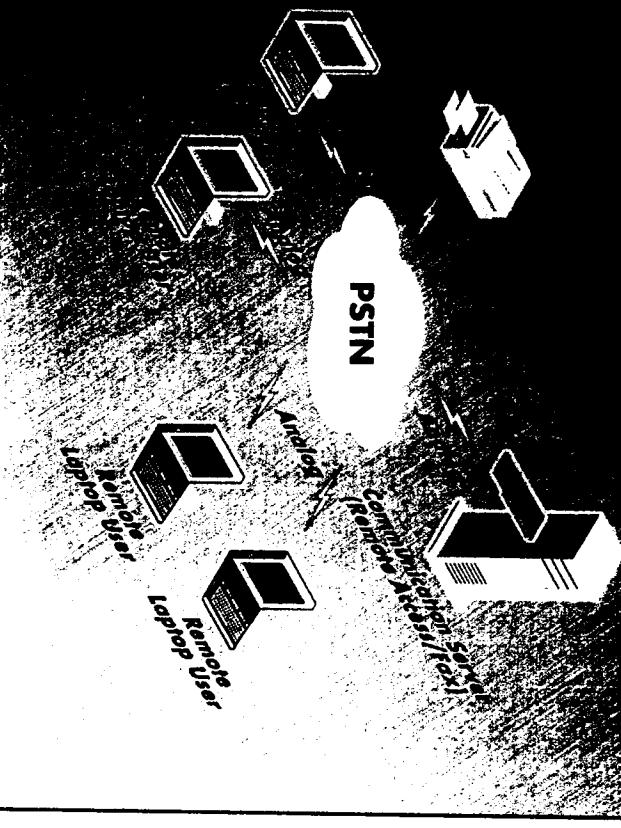
The AccelePort RAS 4 provides four high-speed analog connections. The AccelePort RAS 8 provides up to eight simultaneous high-speed analog connections. As your needs grow, expansion is as easy as adding another adapter to the server.

AccelePort RAS products can be managed using our PortAssist Manager software. PortAssist Manager is a hardware management and reporting software tool which allows for Web browser-based port management, making it easy to manage your ports from anywhere at any time.

Port Numbers

AccelePort RAS

- AccelePort RAS 4 North America 77000616
- Acceleport RAS 4 Europe (Austria, Belgium, Denmark, Finland, Greece, Italy, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom) 77000617
- Acceleport RAS 4 Germany, South Africa 77000618
- Acceleport RAS 4 Australia, New Zealand, Switzerland 77000619
- Acceleport RAS 4 Latin America (Mexico, Argentina, Chile) 77000775
- Acceleport RAS 4 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan) 77000776
- Acceleport RAS 8 Israel, Hungary 77000583
- Acceleport RAS 8 North America 77000584
- Acceleport RAS 8 Europe (Austria, Belgium, Finland, Greece, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom) 77000585
- Acceleport RAS 8 Germany, South Africa 77000586
- Acceleport RAS 8 Australia, New Zealand, Switzerland 77000772
- Acceleport RAS 8 Latin America (Mexico, Argentina, Chile) 77000773
- Acceleport RAS 8 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan) 77000774
- Acceleport RAS 8 Israel, Hungary 77000775

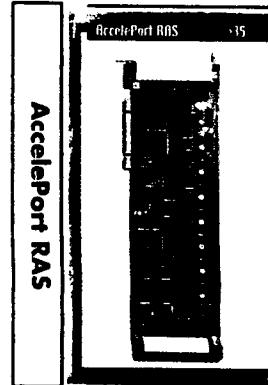


Analog Adapter

AccelePort RAS

The AccelePort RAS Family of multi-modem analog adapters provides high-performance and cost-effective communication

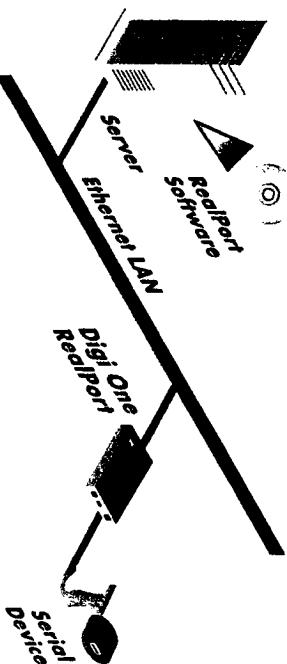
capabilities. It is an ideal choice for a wide variety of applications including Remote Access Services (RAS), fax connectivity, modem pooling, branch office gateways and data acquisition.



Features

AccelePort RAS

- Supports up to eight V.90/fax connections per PCI slot
- Scalable system architecture
- Wide operating system and third party application support
- Digi PortAssist Manager software included
- Supports 3.3v and 5v PCI systems



In addition to industry-leading hardware solutions, our software

management tools deliver application confidence by enhancing the ability to monitor, manage and troubleshoot Digi products.

These tools have broad operating system support and are available for Microsoft, Linux and UNIX environments.

RealPort
The patented Digi RealPort® software makes it possible to use the serial ports of a Digi PortServer TS or Digi One RealPort product as if a serial adapter is actually installed in the server.

The robust capabilities of RealPort allow the serial ports on the Digi product to appear on the server as if they are local, even when they are remotely located via Frame Relay or a leased line.

Digi RealPort software provides full hardware and software flow control on the local server. RealPort is designed for fault tolerant and fail-over systems with the configurable time-out value.

RealPort is standard with the Digi One TS, Digi One RealPort, Digi One IA RealPort and the entire PortServer TS Family.

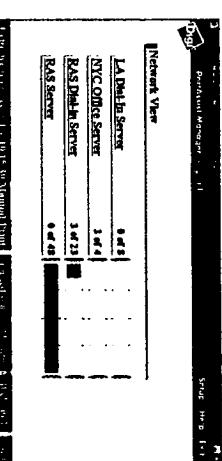
PortAssist Manager

PortAssist Manager is a powerful Web-based hardware management and reporting tool designed to support Digi serial cards and adapters. It provides a new way to access the statistical data and management tools necessary for maintaining Digi products.

The three primary purposes for using PortAssist Manager are:

- 1) real-time status monitoring (10 second minimum display update rate);
- 2) alerting of alarm conditions related to the operation of Digi cards and adapters; and,
- 3) troubleshooting aid for the Digi technical support team when assisting customers.

PortAssist Manager is standard with the Digi AccelePort XP and AccelePort RAS Families.



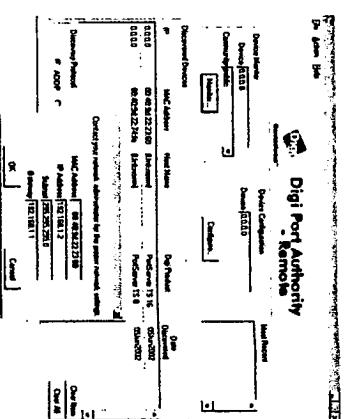
Digi Port Authority - Remote

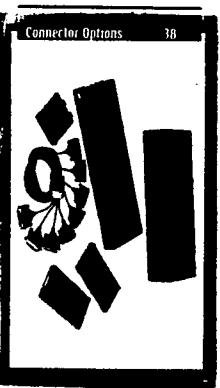
DPA - Remote enhances the manageability of a PortServer TS or a Digi One RealPort product.

DPA - Remote provides the ability to find Digi devices on your network, assign IP addresses and configure and

monitor serial ports. This tool can be used from a UNIX or Windows based client or server and is designed to troubleshoot flow control, wiring and receive/transmit of data for all serial ports. DPA - Remote provides a graphing tool of receive data and buffer space that is refreshed at a user configurable rate.

DPA - Remote is standard with the Digi PortServer TS, Digi One TS and Digi One RealPort Families.

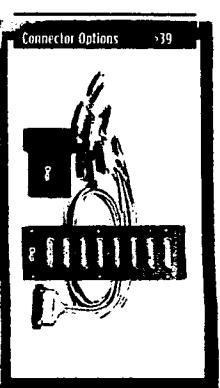




Connector Options

Part Numbers AccelePort Xp and Digi Neo Connector Options	North America	International
• Four-port DB-25M DTE fan-out cable	76000522	76000522
• Four-port DB-9M DTE fan-out cable	76000528	76000528
• Four-port DB-25M DTE connector box	76000524	76000524
• Four-port DB-9M DTE connector box	76000560	76000560
• Four-port RJ-45 DTE connector box	76000526	76000526
• Eight-port DB-25M DTE fan-out cable	76000523	76000523
• Eight-port DB-9M DTE fan-out cable	76000529	76000529
• Eight-port DB-25M DTE connector box	76000525	76000525
• Eight-port DB-9M DTE connector box	76000561	76000561
• Eight-port RJ-45 DTE connector box	76000527	76000527
• Four-port DB-25F DTE fan-out cable	76000532	76000532
• Eight-port DB-25F DTE fan-out cable	76000533	76000533
• Four-port DB-9F DTE fan-out cable	76000530	76000530
• Eight-port DB-9F DTE fan-out cable	76000531	76000531
• 10-foot HD-68 pin cable	76000559	76000559
• HD-68M to DB-78F converter	76000534	76000534

Part Numbers PortServer CM 32 Connector Options	North America	International
One adapter cable needed per port.		
• RJ-45/DB-25M 24-in (61 cm) straight cable	76000129	76000129
• RJ-45/DB-25M 48-in (122 cm) straight cable	76000195	76000195
• RJ-45/DB-25F 24-in (61 cm) straight cable	76000198	76000198
• RJ-45/DB-25F 48-in (122 cm) straight cable	76000199	76000199
• RJ-45/DB-9F 24-in (61 cm) straight cable	76000200	76000200
• RJ-45/DB-9F 48-in (122 cm) straight cable	76000201	76000201
• RJ-45/DB-9M 24-in (61 cm) straight cable	76000239	76000239
• RJ-45/DB-9M 48-in (122 cm) straight cable	76000240	76000240
• RJ-45/DB-25F 48-in (122 cm) crossover cable	76000644	76000644
• RJ-45/DB-9F 48-in (122 cm) crossover cable	76000645	76000645
• RJ-45/DB-25M 24-in (61 cm) printer cable	76000643	76000643
• Single RJ-45/RJ-45 6-foot (183 cm) crossover cable	76000631	76000631
• Eight-pack RJ-45/RJ-45 6-foot (183 cm) crossover cable	76000632	76000632
• 16-pack RJ-45/RJ-45 6-foot (183 cm) crossover cable	76000633	76000633
• RJ-45 10-pin to RJ-45 8-pin modem cable for 3Com/USR, Compaq/Microcom, Hayes	76000566	76000566
• DB-9F/DB-9F 48-in (122 cm) crossover cable	76000642	76000642
EIA-232 Remote Cabling Options (for AccelePort C/X)		
• Host Adapter to EIA-232 Sync Modem	76000211	76000211
• Host EIA-232 Sync Modem to Remote Concentrator	76000212	76000212



Connector Options

Options/Accessories



PORTS Module

The Digi PORTS modules provide eight or 16 EIA-232 serial ports for attaching terminals, printers or modems. Expandability is accomplished by adding up to four external PORTS modules, supporting up to 64 ports per card.

Extending the Boundaries of Connectivity

Part Numbers	North America	International
Additional PORTS Modules for AccelePort Xem and PortServer II		
• PORTS/8em RJ-45*	76000122	76000122
• PORTS/8em DB-25*	76000120	76000120
• PORTS/16em RJ-45*	76000074	76000074
• PORTS/16em DB-25*	76000073	76000073
• PORTS/16em EIA-422 DB-25**	76000535	76000535
• PORTS/16em Rack 1U 19-in RJ-45*	76000617	76000617

*Includes a 16-in (41 cm) daisy-chain cable.
**Includes a 16-in daisy-chain cable and a 120-240V 50/60Hz power supply.

NA version also includes a power cord.

AccelePort Xem Power Supply

The power supply package is needed when using more than two PORTS modules under the ISA or PCI bus architectures.

Part Numbers

North America International

AccelePort Xem Power Supply

- Xem power supply package
(120V for North America, 120/240V for International)

Part Numbers

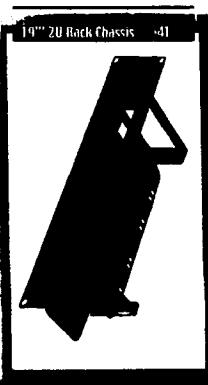
North America International

Part Numbers

North America International

Universal Rack Chassis

The 19-inch 2U Rack Chassis allows for the integration of many Digi products in a wiring closet. Mountable products include a variety of PORTS modules and C/CON concentrators.



19-inch 2U Rack Chassis

For PORTS/8em (RJ-45 & DB-25), PORTS/16em (RJ-45 only), C/CON-8 (RJ-45 & DB-25),

- 19" Rack Chassis-2U

Part Numbers

North America International

Wall mounting brackets

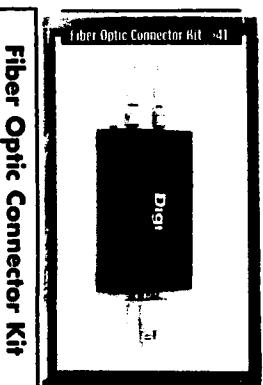
- Digi One TS
- Digi One RealPort 8 PortServer TS 2/4

76000640 76000640
76000641 76000641

Fiber Optic Connector Kit

If a greater distance is required for the AccelePort C/X and/or a connection is needed which is immune to electrical interference, the Digi Fiber Optic

Connector Kit allows a cable connection up to 1.25 miles (2 km) between a host and concentrator with no loss of performance.



Fiber Optic Connector Kit

North America International

Part Numbers

North America International

Fiber optic connector kit

76000071 76000107

- FL Adapter
(Includes two fiber optic conversion boxes, two power supplies and connecting cables for the host card and concentrator.)

Operating System Compatibility

- * Drivers supplied by third-party or operating system vendor.
- ** When powering Edgeport or Rapidport only.
- *** Microsoft Windows 98/Me only

** When powering Edgeport or Rapidport only
*** Microsoft Windows 98/Me only

1

Product Features

Unparalleled Reliability and Warranty Coverage

Digi connectivity solutions have one of the lowest failure rates in the industry. In fact, the failure rate on most products is less than one-half of one percent. In addition, all Digi products are backed by a

comprehensive five-year warranty to ensure that you will have a fully functional solution for the life of your computer system. Most products feature multi-strike surge protection to ensure worry-free reliability.

You can purchase with confidence knowing that Digi is here to support you with expert technical support, a strong five-year warranty.

Industry-Leading Customer Support

When you own a Digi solution, technical support is available on-line 24 hours a day, seven days a week, on Digi's Technical Support Web site, <http://support.digi.com>. On this site, you'll find instant access to driver, firmware and diagnostics downloads, documentation on software and hardware, application and troubleshooting guides, as well as FAQ's and a comprehensive knowledge base. You may also submit a case using an on-line Web form. Phone support is also available. Our technical support staff is responsive, knowledgeable and skilled in solving complex technical problems.

Technical Support Contact Information

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FTP: <ftp://digi.com/support/>
Drivers: www.digi.com/drivers
Email: info@digi.com
Fax: 1-952-912-4958

World Wide Web

Product information, programs, technical support and other valuable information also can be found on the Digi Web site:

www.digi.com

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<http://support.digi.com>

On this

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software and hardware, application

and troubleshooting guides, as well

as FAQ's and a comprehensive

knowledge base. You may also

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Web form. Phone support is also

available. Our technical support

staff is responsive, knowledgeable

and skilled in solving complex

technical problems.

Digi International Inc. Sales

11001 Bren Road East
Minnetonka, MN 55343
PH: 1-877-912-3444
1-952-912-3444
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FX: 1-952-912-4952
E-mail: info@digi.com
Web: www.digi.com

Digi International Denmark

Hereskovel, 18C, 19.8
DK-3490 Kvistgaard, Denmark
PH +45-49-17-70-90
FX +45-49-17-70-91

Digi International GmbH

Joseph-von-Fraunhofer Str. 23
D-44227 Dortmund
Germany

PH +49-231-9747-0
FX +49-231-9747-111

Digi International (UK) Ltd

Ashwood House, Almondsbury
Business Center Woodlands
Bradley Stoke, Bristol
BS32 4QH

PH +44(0)1454-643444
FX +44(0)1454-619048

Digi International (HK) Limited

Suite 1101-02, 11/F
K Wah Centre
191 Java Road

North Point
Hong Kong
PH: +852-2833-1008
FX: +852-2572-9989

Digi International

2 rue de L'Eglise
92200 Neuilly sur Seine, France
PH +33-1-55-61-98-98
FX +33-1-55-61-98-99

Digi International

Room 705-6
Ruoychai International
Building, No. 8

Yong An Dong Li, Jian Guo
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Connectware™

Digi International, the leader in Connectware makes device networking easy by developing products and technologies that are cost-effective and easy to use.

External Device & Terminal Servers

Embedded & Customizable Solutions

Processors & Development Tools

Secure Console Servers

USB Connectivity

Multiport Serial Cards

Multi-Modem Communication Adapters

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Connectware™

Digi International, the leader in Connectware, makes device networking easy by developing products and technologies that are cost-effective and easy to use.

Digi offers an extensive range of products including device servers, secure console servers, terminal servers, multiport serial cards, Universal Serial Bus (USB) and now embedded networking technology to enable a virtually unlimited number of devices or users to be connected locally or remotely to LANs, multi-user systems and the internet. Designed for a wide range of businesses including retail, industrial, hospitality, finance and medical sectors, our product lines allow customers to automatically collect, track, measure, monitor and control the critical data they need to gain a competitive advantage and build their business.

With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.

Making
DEVICE NETWORKING
easy™

External Device & Terminal Servers	4
Universal	6-8
Standard	9
Basic	10
Industrial	11
Management Tools	12-13
Embedded & Customizable Solutions	14
Customizable	16
Embedded	17-18
Embedded Tools	19
Processors & Development Tools	20
Low-cost ARM7 Solution	22
High-performance ARM9 Solution	23
Full-function ARM7 Solution	24
Tools and Application Software	25
Secure Console Servers	26
Secure out-of-band Management	28
USB Connectivity	30
USB-to-Serial Converters	32-33
USB Over IP	34-35
Environmental Monitoring	36-37
802.11b Wireless LAN	38
Wireless Serial	39
USB RAS	40
USB PlusPower	41
Multipoint Serial Cards	42
High-Performance	44-45
Expandable	46-47
Standard	48-49
Multi-Modem Communication Adapters	50
Analog Adapters	51
Options/Accessories	52-57
Operating System Compatibility	58-59
Product Features	60-61
Customer Support	62
Digi Offices	63

External Device & Terminal Servers

External Device & Terminal Servers

Digi TS Family
Digi One 32
Digi One 52
Digi One IA Family

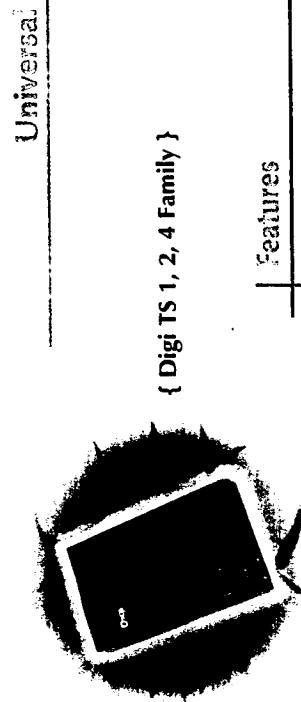
Product Comparison

Today, Digi is making device networking easy by enabling you to network-attach all your serial devices. Digi device and terminal servers are part of the Digi Connectware Family of simple, reliable and cost-effective solutions. With a variety of one-, two-, four-, eight- and 16-port products to meet your specific needs, Digi device and terminal servers combine the inherent benefits of data networking with proven asynchronous connectivity. They quickly and easily turn a previously isolated device with a serial port into a fully collaborative component of your network.

The benefits of networking these devices are clear: immediate access to information, improved flexibility, and a significant reduction in operating costs. Customers can now directly access and manage their devices, either through a private intranet or over the public Internet. Wherever you are, you are connected. Anytime. And without the time-consuming problems and additional costs of separate wiring or the setup of modems. Instead, you use the existing Ethernet infrastructure to make your business more productive and profitable.

In addition, Digi's patented RealPort technology allows users to locate serial devices anywhere on their IP network without having to change application programs that are expecting host-connected COM or TTY ports. This allows Digi device and terminal servers to provide a simple, easy migration path for moving serial host adapters to fully Ethernet-enabled devices with no application modifications and complete confidence.

Number of Ports	Product	Description
1, 2, 4	Digi TS Family High-performance device server	
1	Digi One 32 Standard device server	
1	Digi One 52 Basic device server	
1	Digi One IA Family Created specifically for the IA market	
2	NetServer TS 2 High-performance two-port device server	
4	NetServer TS 4 High-performance four-port device server	
8	NetServer TS 8 High-performance terminal server	
16	NetServer TS 16 High-performance terminal server	



{ Digi TS 1, 2, 4 Family }

Features

Digi TS 1, 2, 4 Family

This universal, high-performance family allows you to connect serial devices simply and reliably to your Ethernet network. The simplicity of installation and configuration makes connecting your serial devices to the Ethernet easier than ever.

Multi-Electrical Interface models (M models)

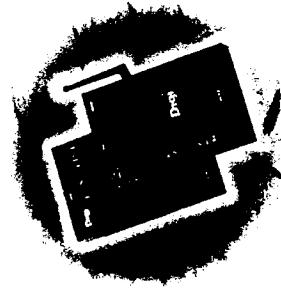
The MEI Family provides versatile EIA-232/422/485 switch-selectability for each port. This product family provides an embedded modem as an option available on selected models. The Digi TS 2/4 MEI with modem delivers a V.90 modem as port 1 with the remaining ports available for attaching serial devices making it an ideal solution for remote routing over analog phone lines.

- Digi TS 1, 2, 4 Family
- 10/100Base-T
- RJ-45 serial port
- EIA-232/422/485 switch selectable [all ports] for MEI and W models, port 1 only for H models
- Mounting bracket included for Digi One TS; for others see page 54
- Flexible powering via 9-30Vdc input, Powered Ethernet or through serial port
- Telnet and Reverse Telnet
- Up to 230 Kbps data rate
- Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADDP (Advanced Device Discovery Protocol)
- Patented RealPort technology for COM and TTY port control
- Industry leading low latency
- Easy configuration through web interface
- PPP
- Modbus/TCP
- Enhanced SNMP (read/write)
- Remote management/diagnostics tool via Digi Port Authority-Remote
- Data security via SSH v2 and SSL
- Port buffering
- Modem emulation for easy migration from modems to network connectivity

{ Digi TS 1, 2, 4 Family }

Universal

Universal



{ Digi TS H and Digi TS W }

Digi TS H and Digi TS W

Hardened, extended temperature models (H models)

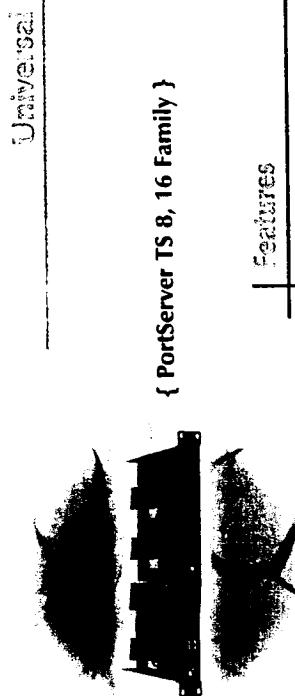
To meet the operating temperature requirements of harsh application environments, the Digi TS Family is available in extended temperature models with an operating temperature of -35°C to 70°C. These devices are ideal for intelligent transportation systems, utilities and other applications that may be subject to higher or lower than normal temperatures.

- Wireless 802.11b models (W models)
- The Digi TS W Family provides one, two- and four-port serial to wireless 802.11b connectivity. Eliminating the need for physical Ethernet connections, these products can be located anywhere within reach of an 802.11b wireless network and will appear and function as if they are locally attached.

In addition, these 802.11b wireless solutions include 64-bit and 128-bit Wired Equivalent Privacy (WEP).

PortServer TS Models International

PortServer TS Model	Port	Protocol	Port	Protocol	Port	Protocol
Digi One TS models						
• Digi One TS	1		1		70001805	70001832
• Digi One TS H	1		1		70001917	70001917
• Digi One TS W	1		1		70001954	70001955
• Digi One TS 2, 4 models						
• PortServer TS 2 MEI	2		2		70001806	70001833
• PortServer TS 2 H	2		2		70001918	70001918
• PortServer TS 2 W	2		2		70001956	70001957
• PortServer TS 2 MEI w/modem	2		2		70001898	N/A
• PortServer TS 4 MEI	4		4		70001807	70001834
• PortServer TS 4 H	4		4		70001919	70001919
• PortServer TS 4 W	4		4		70001958	70001959
• PortServer TS 4 MEI w/modem	4		4		70001890	N/A



{ PortServer TS 8/16 Family }

Features	PortServer TS 8/16
<ul style="list-style-type: none"> • PortServer TS 8/16 • 10/100Base-T (auto-sensing) • RJ-45 serial port • Supports Radius Authentication • Telnet and Reverse Telnet • Up to 230 Kbps data rate • Easy IP assignment via static IP, DHCP, RARP, ARP/Ping or ADDP • Patented RealPort technology for COM and TTY port management • Industry leading low latency • Easy configuration through web interface • Simple Network Management Protocol (SNMP) MIB-II support • Remote management/diagnostics tool via Digi Port Authority-Remote • Data security via SSH v2¹ • Port buffering • Modem emulation for easy replacement of modems 	<ul style="list-style-type: none"> • 10/100Base-T (auto-sensing) • RJ-45 serial port • EIA-232 • Telnet and Reverse Telnet • Up to 230 Kbps data rate • Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADDP (Advanced Device Discovery Protocol) • Patented RealPort technology for COM and TTY port control • Industry leading low latency • Easy configuration through web interface • PPP • Enhanced SNMP (read/write) • Remote management/diagnostics tool via Digi Port Authority-Remote • Data security via SSH v2¹ • Port buffering • Modem emulation for easy replacement of modems

PortServer® TS 8/16

The PortServer TS 8/16 delivers simple, reliable and cost-effective network serial connectivity for a wide range of applications. The PortServer TS provides hardware independent solutions that give serial devices access to network server applications.

These products provide a cost-effective eight and 16 EIA-232 serial port solution and include Digi's patented RealPort® technology that delivers local serial port functionality over the network, allowing serial port sharing between multiple hosts.

SSH v2 provides the most secure method to protect against unauthorized monitoring of LAN traffic. Port Buffering allows the network system administrator to capture vital information from the serial ports of managed UNIX servers, routers and other networked equipment for problem resolution.

Features	Digi One RP/FortServer TS 2/4
<ul style="list-style-type: none"> • 10/100Base-T • RJ-45 serial port • Telnet and Reverse Telnet • Up to 230 Kbps data rate • Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADDP (Advanced Device Discovery Protocol) • Patented RealPort technology for COM and TTY port control • Industry leading low latency • Easy configuration through web interface • Enhanced SNMP (read/write) • Remote management/diagnostics tool via Digi Port Authority-Remote • Data security via SSH v2¹ • Port buffering • Modem emulation for easy replacement of modems 	<ul style="list-style-type: none"> • 10/100Base-T • RJ-45 serial port • EIA-232 • Telnet and Reverse Telnet • Up to 230 Kbps data rate • Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADDP (Advanced Device Discovery Protocol) • Patented RealPort technology for COM and TTY port control • Industry leading low latency • Easy configuration through web interface • PPP • Enhanced SNMP (read/write) • Remote management/diagnostics tool via Digi Port Authority-Remote • Data security via SSH v2¹ • Port buffering • Modem emulation for easy replacement of modems

Digi One™ RP/PortServer TS 2/4

This family provides standard serial-to-Ethernet connectivity simply and cost-effectively. It is ideal for environments such as retail, building automation and other applications where Ethernet already exists and laying serial cable for asynchronous adapter use is cost prohibitive and where the integration into existing software applications is required without making changes.

All models come complete with features including, Digi's patented RealPort technology, TCP/UDP Socket service support, data distribution up to 64 UDP recipients, SNMP for easy network management, and PPP for network-enabling serial devices.

Product	Model	Serial Ports	Network Ports	Power	Order No.
Digi One RP	Digi One RP	1	1	70001749	70001752
PortServer TS 2/4	PortServer TS 2/4	2	2	70001750	70001753
PortServer TS 2	PortServer TS 2	4	4	70001751	70001754

For additional cables, see page 52.

Product	Model	Serial Ports	Network Ports	Power	Order No.
Digi One RP	Digi One RP	1	1	70001749	70001752
PortServer TS 8	PortServer TS 8	8	1	70001741	70001738
PortServer TS 16	PortServer TS 16	16	2	70001743	70001747
PortServer TS 16 Rack	PortServer TS 16 Rack	19 in. and 23 in. rack	2	70001750	70001753
PortServer TS 32	PortServer TS 32	32	4	70001751	70001754

{ Digi One SP }

{ Digi One IA Family }



Features

Digi One SP

- 10/100Base-T
- DB-9M serial connector
- EIA-232/422/485 switch selectable
- Mounting bracket available (see page 54)
- Flexible powering via 9-30Vdc input
- Telnet and Reverse Telnet
- Up to 230 Kbps data rate
- Easy IP assignment via Static IP, DHCP, RARP, ARP/Ping, or ADDP (Advanced Device Discovery Protocol)
- Patented RealPort technology for COM and TTY port control
- Industry leading low latency
- Easy configuration through web interface

The Digi One SP is easy to install using the installation wizard and can be setup on your network within minutes. It also provides switch selectable EIA-232/422/485 for simple interfacing to any type of serial device.

The Digi One SP provides simple serial-to-Ethernet conversion including serial tunneling, TCP/UDP Sockets service support, data distribution up to 64 UDP recipients and RealPort technology.

Features

Digi One IA Family

- 10/100Base-T
- DB-9 and screw terminal block connector
- Switch selectable
- EIA-232/422/485 interface
- Up to 230 Kbps data rate
- Flexible 9-30Vdc power input (screw terminal block)
- DIN Rail mounting
- LED status for serial signals, power, Ethernet, and diagnostics
- Patented RealPort technology for COM and TTY port management
- Easy web configuration (HTTP)
- Telnet and Reverse Telnet
- TCP/UDP Socket Services

Digi One IAP

- Powered Ethernet (802.3af) support
- Modbus/TCP, DF1, Ethernet/IP, and Omron protocols
- Enhanced SNMP (read/write)
- Remote management/diagnostics tool
- Pass thru EIA-232 port allows the Digi One IAP to function as a two-port device server and provides direct access to the end serial device simultaneously through the Digi One IAP

Basic

Industrial



{ Digi One IA Family }

Features

Digi One™ IA Family

The Digi One IA Family delivers simple, reliable, and cost-effective network connectivity for serial devices common in industrial automation environments and applications such as Programmable Logic Controllers (PLC), CNC/DNC equipment, operator displays, vision systems and many other types of manufacturing equipment.

The Digi One IA provides basic serial-to-Ethernet connectivity through serial tunneling, TCP/UDP Sockets and RealPort.

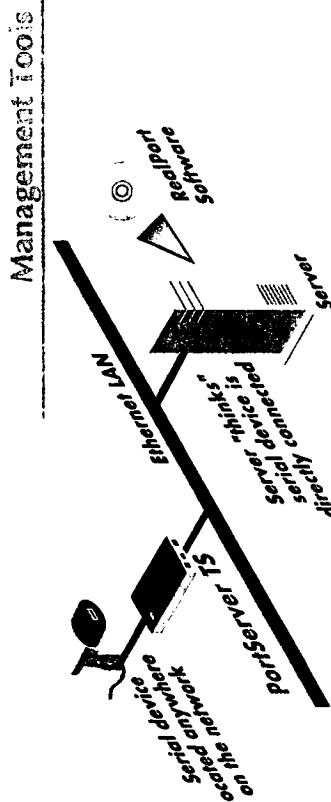
The Digi One IAP adds to the Digi One IA with advanced industrial Ethernet protocols such as Modbus/TCP, DF1, Ethernet/IP, and selected Omron protocols and even has the ability to configure custom protocols. In addition, the multi-master and multi-protocol functionality means users can have multiple protocols accessing the serial device from multiple hosts on the network.

Digi One SP	Digi One IA Family
<ul style="list-style-type: none"> • Digi One SP • Mounting bracket 	<ul style="list-style-type: none"> • Digi One IAP • Digi One IA

Digi One SP	Digi One IA Family
<ul style="list-style-type: none"> • Digi One SP • Mounting bracket 	<ul style="list-style-type: none"> • Digi One IAP • Digi One IA

For Digi One IA modem, see page 55.

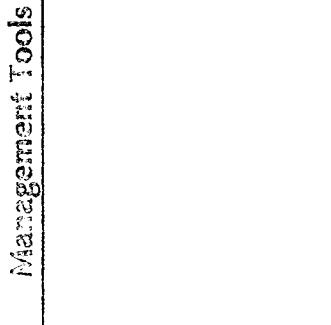
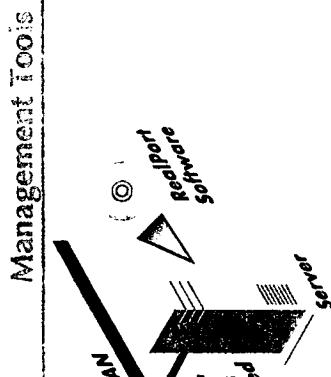
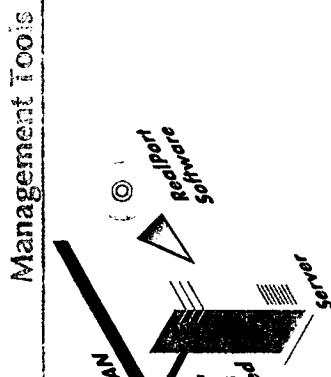
DII 00261



Patented RealPort® Technology

Digi's patented RealPort software allows companies to network-enable serial devices without having to spend valuable time and money re-writing existing application programs. Many of today's key business applications have been written to talk to serial devices directly connected to servers. As businesses and networks have grown, companies have found it necessary to place their serial devices across the network, away from their servers.

Digi's RealPort software provides a virtual connection to these serial devices, no matter where they reside on the IP network. The software is installed directly on the server and allows the application to talk across a network to a device as if the device was directly attached to the COM or TTY port on the server. In actuality, the devices are connected to a Digi device server or terminal server somewhere on the network. RealPort provides full hardware and software flow control on the local server.

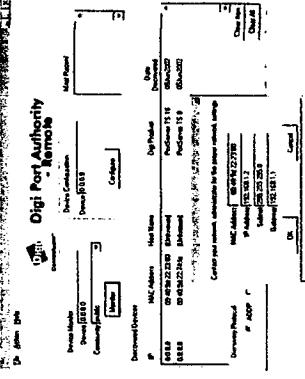


Encrypted RealPort Technology

The new patent pending Encrypted RealPort software is an enhanced version of RealPort. It allows companies to securely network-enable serial devices without having to spend valuable time and money re-writing existing application programs.

The new Encrypted feature makes Digi's RealPort technology the only COM port redirector to offer a secure connection over the Ethernet between the server and a device or terminal server. This enhanced security feature prevents external, as well as internal snooping of data across the connection. This security is provided by encapsulating the Ethernet packets in an SSL connection and encrypting the data using AES, one of the latest, most efficient security algorithms.

Encrypted RealPort is an optional feature available on all of Digi's device servers and terminal servers.

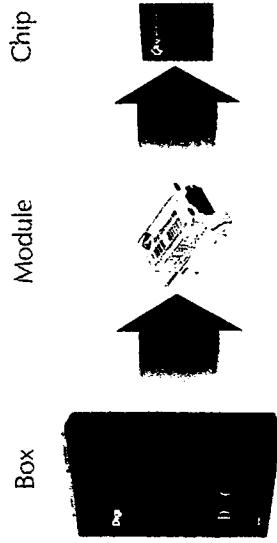


Digi Port Authority - Remote

DPA - Remote provides the ability to find Digi devices on your network, assign IP addresses and monitor serial ports, Ethernet and protocols. This tool can be used from a UNIX or Windows based client or server and is designed to troubleshoot flow control, wiring and receive/transmit of data for all serial ports. DPA - Remote provides a graphing tool of receive data and buffer space that is refreshed at a user configurable rate.

DPA - Remote is standard with the Digi PortServer TS Families, Digi TS, M, H, W Families Digi One IAP and Digi One RP.

Digi Connect SP
Digi Connect EM
Digi Connect MF
Digi Connect ME Integration and Development Kits



Seamless Migration to Total Integration

Future proof protection - software development migrates fully to chip solutions.

Introducing the new Digi Connect ME

Device networking is the new frontier for electronic products. Today, the same processing technology that powers a desktop computer can be "embedded" into everyday devices or connected to these devices, transforming them into intelligent, collaborative networked devices. This can enable a new world of remote access and device management, distributed intelligence, quick and simplified information sharing and easy network-based upgrades, repair and product maintenance.

True Device Networking is more than just finding a way to connect a device to an Ethernet network, but rather it includes making completion of product designs easier and quicker, being able to leverage or extend existing investments, and delivering uncompromised performance that is extendable into the future.

The combination of Digi and NetSilicon technology delivers true device networking that is easy and cost-effective to implement, while being powerful enough to meet your future product performance needs. The Digi Connect family delivers external device connectivity and embedded solutions that are customizable using the NET+ Works development platform. The NetSilicon Family of 32-bit NET+ARM processors and development tools help you rapidly build your intelligent device.

Key benefits of the Digi Connect and NetSilicon Families of products are:

Fast Integration

In today's competitive and demanding marketplace, adding networking to an existing product or integrating it into your new product must be fast. Easily enhancing device productivity by adding networking technology in cost- and time-effective manner is critical.

Future-Proof Your Design and Protect Your Investment

No matter what hardware platform is needed – from external device servers to embedded modules to fully integrated processor solutions, products that fully protect your design investment while reducing development risk create a future where it's easy to enhance your product's performance. Software applications developed on NetSilicon's 32-bit technology can fully migrate across all Digi Connect hardware platforms, maximizing your initial investment and requiring only a single development effort.

No Compromise Capabilities

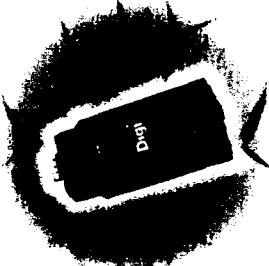
No compromise capabilities is not having to sacrifice performance and functionality in order to meet cost objectives. The Digi Connect Family and NetSilicon processors deliver 32-bit performance and flexibility with the power to meet the performance levels of today and extend into the future – all at a price that makes compromising on capabilities a thing of the past.

 Digi Connect SP Customizable device server	 Digi Connect EM Embedded module	 Digi Connect MF Embedded module
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Customizable

Embedded

{ Digi Connect SP }



Features

Digi Connect SP

- Powerful 32-bit NET+ARM processor
- 10/100Base-T Ethernet interface
- DB-9M serial connector up to 230kbps data rate
- EIA-232/422/485 switch-selectable
- Flexible 9 - 30Vdc power supply
- User-friendly and fully customizable web interface
- Universal IP address assignment for seamless network integration
- Strong SSL/TLS-based AES/TDES encryption
- Intelligent management through SNMP

Digi Connect SP
The Digi Connect SP is part of the Digi Family of customizable device networking solutions combining the strength of NetSilicon NET+ARM Ethernet-enabled microprocessors and the NET+Works® development platform with leading Digi device server technology. Together, they provide a complete and fully customizable external network connectivity solution for a wide variety of applications.

Leveraging the NetSilicon 32-bit NET+ARM processor, the Digi Connect SP provides customers with a hardware platform that allows seamless migration from an external box to a fully integrated processor-based solution by extending development across all box-module-chip solutions.

The Digi Connect SP combines plug-and-play functionality with the flexibility of complex product customization based on the NetSilicon NET+Works development platform.

{ Digi Connect EM }

Features

Digi Connect EM

- Compact single component solution with popularization options
- Powerful 32-bit NET+ARM processor
- Operating temperature range -40° C to +85° C
- Integrated 4MB Flash and 8MB RAM
- Two high-speed TTL serial interfaces with up to 230 Kbps throughput
- Integrated 10/100 Mbit network interface
- Nine GPIO ports and SPI (Master) interface for application specific use
- User-friendly and fully customizable web interface
- Universal IP address assignment for seamless network integration
- Strong SSL/TLS-based AES/DES/3DES encryption
- Intelligent management through SNMP
- Available as plug-and-play version and with full development kit for custom application design

Digi Connect EM
The Digi Connect EM embedded module combines leading 32-bit performance with flexible connectivity options and offers equipment manufacturers a quick and cost-effective way to web- and network-enable their products. An array of unique and industry-leading features such as fully customizable web interface, custom Java applet support, enhanced security with strong AES/DES/3DES encryption based on the SSL/TLS standard, two serial ports with nine GPIO port options and a SPI (Master) interface for seamless product integration, and the patented RealPort COM/PTT redirection software make it the single component solution of choice for any embedded application that requires performance and flexibility in a robust and compact form factor.

Features

Digi Connect EM

- Digi Connect EM with pin headers
- Digi Connect EM with integrated RJ-45 and LEDs
- Digi Connect EM Integration Kit
- Digi Connect EM Development Kit (GNU)
- Please contact us at 1-877-QEM-DIGI for additional information or to discuss your specific requirements.

Features

Digi Connect 3M

- | | |
|-----------|--------------|
| DC-SP-01M | DC-SP-01M-GN |
|-----------|--------------|

Features

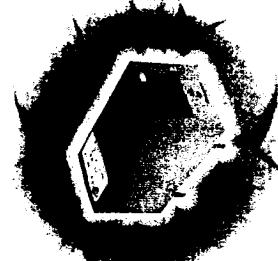
Digi Connect 2M

- | | |
|--------------|-----------|
| DC-EM-02T-NC | DC-EM-02T |
|--------------|-----------|

Features

Digi Connect 1M

- | | |
|--------------|--------------|
| DC-EM-02T-KT | DC-EM-02T-GN |
|--------------|--------------|



{ Digi Connect ME }

Features	
Digi Connect ME	<p>• Embedded device server with extremely small footprint</p> <p>• Powerful 32-bit NET+ARM processor</p> <p>• Operating temperature range 40°C to +85°C</p> <p>• Integrated 2MB Flash and 8MB RAM</p> <p>• High-speed TTL serial interface with up to 230 Kbps throughput</p> <p>• Integrated 10/100 Mbit network interface (RJ-45)</p> <p>• Five GPIO ports for application-specific use</p> <p>• Innovative 802.6 power pass-thru option</p> <p>• User-friendly and fully customizable web interface</p> <p>• Universal IP address assignment for seamless network integration</p> <p>• Strong SSL/TLS-based AES/3DES encryption</p> <p>• Intelligent management through SNMP</p> <p>• Available as plug-and-play version and with full development kit for custom application design</p>
Unique and industry-leading features such as a fully-customizable web interface, custom Java applet support, enhanced security with strong AES/3DES encryption based on the SSL/TLS standard, five integrated GPIO port options for added integration flexibility, an innovative power pass-thru option to create entirely network-powered products, and patented RealPort COM/TTY port redirection software make it the ideal solution for any embedded application that requires versatility and performance in a robust and extremely compact form factor.	

Embedded

Embedded Tools

{ Integration and Development Kits }

Features	
Digi Connect ME	<ul style="list-style-type: none"> • Digi Connect ME • Development Board • Macraigor Raven JTAG Debugger • NET+Works Software Components • Microcross GNU X-Tools™ Components • ThreadX™ Real Time Operating System • FUSION™ TCP/IP Stack • Allegro Software Embedded Web Server • Micro XML SAX Parser • SNMP MIB Compiler • SSL 3.0/TLS 1.0 • FLASH File System • Sample Code
Development Kits	<p>Based on the NET+Works Family of platform solutions, the Development Kit enables you to easily integrate custom network connectivity into your products quickly by providing a full suite of development tools, a development board, cables, power supply, hardware debugger, a royalty-free runtime environment, and a complete set of networking protocols and applications software in order to accelerate your overall software development process.</p>

Features	
Development Kits	<p>Targeted specifically at customers who want to take advantage of the Digi Connect ME embedded device server with Digi plug-and-play firmware functionality, it enables integration of the Digi Connect ME embedded module without any extensive embedded software development with all the additional flexibility and benefits of web user interface customization and application specific java applets.</p>
Integration and Development Kits	<ul style="list-style-type: none"> • Digi Connect ME Integration Kit • Digi Connect EM Integration Kit • Digi Connect SP Development Kit (GNU) • Digi Connect ME Development Kit (GNU) • Digi Connect EM Development Kit (GNU)



Integration and Development Kits

DC-ME-01T-KT	DC-EM-02T-KT	DC-SP-01M-GN	DC-ME-01T-GN	DC-EM-02T-GN
DC-ME-01T	DC-EM-02T-KT	DC-SP-01M-GN	DC-ME-01T-GN	DC-EM-02T-GN

NS752C
NS975C
NET+Works 5.0



A Digi International® Company

NET+Works™ Development Tools

NetSilicon offers a family of high performance NET+ARM microprocessors with its NET+Works® suite of advanced networking development tools and software. NET+Works is a complete and integrated embedded networking package that contains a development board and hardware debugger, the ThreadX real-time operating system, a TCP/IP stack, and networking applications software, as well as Gnu or Green Hills development tools.

NetSilicon's 32 bit NET+ARM processors are an ideal platform for developing your network-enabled products and are fully supported by the NET+Works Family of integrated hardware and software solutions. These complete systems-on-chip have been thoughtfully designed to balance performance and flexibility for a variety of embedded networking applications in a cost effective manner.

Our goal is to make device networking easy by delivering products that are optimized for both cost-sensitive and high-performance device networking applications.

Here are just a few of the reasons you should consider NET+ARM processors for your next design:

- System-on-chip delivers higher reliability, lower unit costs, and smaller footprint
- Pre-integrated with board support package, development tools, operating system, networking software, and APIs
- Supported comprehensively with technical documentation, applications notes, example code, and hardware design review services to significantly cut down the time it takes to bring your product to production
- Powered by ARM, the most popular core in the industry

- Proven in over 500 network-enabled products worldwide
- Ideal as device networking coprocessors or core processors in a wide variety of embedded devices including those in industrial automation, office automation, building automation, point-of-sale, medical equipment, and communications equipment
- NET+ARM processors were the first processors dedicated to device networking, and remain the only family of processors dedicated solely to Making Device Networking Easy

The NET+ARM Family has been optimized to work efficiently on a 10/100Base-T LAN connection and to move large amounts of data at high speed. This performance is achieved primarily by the unique design of the DMA controller, cache, and bus system which increases effective processor MIPS and system bandwidth.

The NET+ARM Family ranges from the NS7520, a low-cost processor suitable for cost sensitive network appliance applications to the high performance NS9750, with its integrated PCI, USB, I2C, serial ports and LCD controller. Code developed on any NET+ARM processor is easily ported to another due to the common NET+Works APIs, eliminating costly code rewrites and redundant development work.

	NS752C	Low-cost ARM7 solution
	NS975C	High-performance ARM9 solution
	NET+Works 5.0	Tools and application software

Low-cost ARM Solution

{ NS7520 }



Features

- 32-bit high-performance ARM7TDMI RISC processor
- Integrated 10/100Base-T Ethernet MAC
- 2kB Rx and 512B Tx buffers
- Patented 13-channel DMA controller
- Memory controller for glueless connection to Flash, SDRAM, EEPROM, and others
- Programmable timers
- External bus expansion module
- 16 general-purpose I/O (GPIO) pins
- Software compatibility across product line to ease future migration
- Includes complete royalty-free, production-ready, networking software

The NetSilicon NS7520 is a very low-cost, high performance, highly integrated, 32-bit network-attached microprocessor specifically designed for use in intelligent networked devices and Internet appliances. The NS7520 is a member of the award-winning NET+ARM Family of system-on-chip (SoC) solutions for embedded systems. The NS7520 SoC includes an ARM7TDMI 32-bit RISC processor core with a rich complement of support peripherals, including a 10/100Base-T Ethernet MAC and two independent serial ports (each programmable into UART, HDLC, or SPI mode).

NET+ARM processors are the foundation for the NET+Works Family of integrated hardware and software solutions for device networking. These comprehensive platforms include drivers, operating systems, networking software, development tools, APIs and complete development boards.

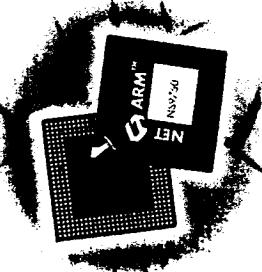
High-Performance ARM Solution

{ NS9750 }

Features (Preliminary)

- 200MHz ARM926EJ-S with Harvard architecture 8k/4k Instruction/Data cache
- Integrated full-duplex 10/100Base-T Ethernet MAC
- 2kB Rx & 256B Tx FIFOs with on-chip buffer descriptor ring SRAM
- 100 MHz memory controller, with glueless connection to SDRAM, DIMM, Flash, EEPROM and SRAM
- High performance DMA system
- Embedded LCD controller
- PCI/Cardbus port for WLAN or external storage
- USB v2.0 Full-Speed Device or OHCI Host
- 4 multi-function serial ports, selectable UART, HDLC, or Master/Slave SPI mode
- I2C port, master or slave, normal (100kHz) or fast (400kHz) modes with clock stretching

- Programmable high-resolution timers/counters available on I/O
- External bus expansion module
- 50 general-purpose I/O (GPIO) pins
- Highly-configurable power management with sleep mode



- 200MHz ARM926EJ-S with Harvard architecture 8k/4k Instruction/Data cache
- Integrated full-duplex 10/100Base-T Ethernet MAC
- 2kB Rx & 256B Tx FIFOs with on-chip buffer descriptor ring SRAM
- 100 MHz memory controller, with glueless connection to SDRAM, DIMM, Flash, EEPROM and SRAM
- High performance DMA system
- Embedded LCD controller
- PCI/Cardbus port for WLAN or external storage
- USB v2.0 Full-Speed Device or OHCI Host
- 4 multi-function serial ports, selectable UART, HDLC, or Master/Slave SPI mode
- I2C port, master or slave, normal (100kHz) or fast (400kHz) modes with clock stretching

- Programmable high-resolution timers/counters available on I/O
- External bus expansion module
- 50 general-purpose I/O (GPIO) pins
- Highly-configurable power management with sleep mode

Please contact sales
at 800-243-2333 for
availability.

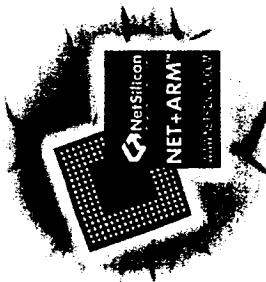
NS7520B-1-C36
NS7520B-1-I46
NS7520B-1-C55

0 to 70°C operation, 35MHz
-40°C to 85°C operation, 46MHz
0 to 70°C operation, 55MHz

NS7520B-1-C36
NS7520B-1-I46
NS7520B-1-C55

125MHz
162MHz
200MHz

Full-function ARM® Solutions



{ NET+50 }

NET+50

The NET+50 is a low-cost, high-performance 32-bit network attached microprocessor developed especially for high-bandwidth applications in Intelligent Networked Devices. The NET+50 is a member of the award-winning NET+ARM Family of system-on-chip solutions for embedded systems. It includes an ARM7TDMI microprocessor core, integrated 10/100Base-T Ethernet MAC, a distributed 10-channel linking DMA controller and a memory controller supporting all of the popular memory devices in use today. Combined with NetSilicon networking software and out-of-the-box development environment, the NET+50 offers the best and fastest way to develop and produce Ethernet-/Internet-connected products.

- 32-bit high-performance ARM7TDMI RISC processor
- 8kB internal cache or 16kB of RAM
- Integrated 10/100Base-T Ethernet MAC
- Large 2kB RX buffer for reliable network performance
- 10-channel DMA controller
- Software compatibility across product line to ease future migration
- Supported by complete production-ready networking software, royalty-free NET+OS real-time operating system and comprehensive development tools

- NET+50
- TCP/IP stack
- ThreadX® RTOS
- Royalty-free environment
- ARM7-based development board with
- Integrated Ethernet PHY
- I/O
- Schematics
- Driver source code
- Debugger
- Green Hills System MULTI IDE® or Microcross GNU X-Tools™

- NET+Works 6.0
- NET+Works is a complete development environment for Ethernet/Internet enabling your devices. NET+Works is specifically optimized for NetSilicon's Family of 32-bit NET+ARM SOC (System-On-a-Chip) microprocessors. Networking software, a Real-Time Operating System (RTOS), development tools, a development board, and a debugger are all included in this easy-to-use, integrated solution that reduces design risk and speeds time-to-market.

Full-function ARM® Solutions

{ NET+Works 6.0 }

- NET+Works 6.0
- NET+Works is a complete development environment for Ethernet/Internet enabling your devices. NET+Works is specifically optimized for NetSilicon's Family of 32-bit NET+ARM SOC (System-On-a-Chip) microprocessors. Networking software, a Real-Time Operating System (RTOS), development tools, a development board, and a debugger are all included in this easy-to-use, integrated solution that reduces design risk and speeds time-to-market.



NET+Works Complete for NET+OS™/Multi	
• For NET+50 V6.0	NSDEV50B-TC60
• For NS7520 V6.0	NSDEV7520-TC60
• For NS7520 V6.0	NSMULTI7520-TC60
• For NET+50 V6.0	NSMULTI50B-TA60
• For NS7520 V6.0	NSMULTI7520-TA60
• For NET+50 V6.0	NSDEV50B-GB60
• For NS7520 V6.0	NSDEV7520-GB60
• For NET+50-QT3	NET+50-QT3
• For NET+50-QINP-3	NET+50-QINP-3
• For NS7520 V6.0	NSDEV50B-GC60
• For NS7520 V6.0	NSDEV7520-GC60

Note: OS versions contain paid fees for the runtime license.

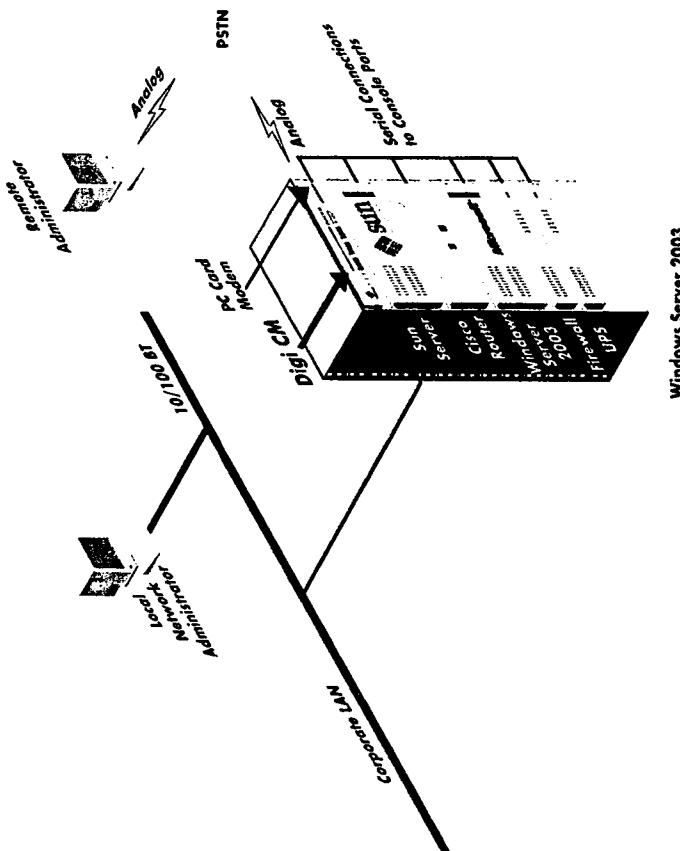
Secure, out-of-band management
 Out-of-band management minimizes unplanned network downtime and maximizes IT efficiency by providing an alternative or “out-of-band” management path to servers, routers, switches, PBX’s, and other parts of the network infrastructure. Most organizations have network management systems and strategies, such as SNMP, that rely on network connectivity to manage equipment. Additionally, there are often elaborate tools for tracking server performance. But what happens when the network is down, or the equipment is unreachable, or the server locks up for some reason? Often the answer is a time-consuming, costly, site visit by someone qualified to find and fix the problem – all while business is being impacted or possibly lost!

Most network equipment has a serial console port that provides a “service” entrance into the equipment. For example, when a UNIX server goes into maintenance mode, the only means of entering the server is through the console port as a “root” user. Digi has been providing out-of-band console management solutions for over 10 years, with a variety of solutions that connect these console ports to terminal servers, device servers and multiport serial cards installed in PCs or servers.

Digi CM
 The Digi CM is the latest in Digi solutions for out-of-band management, and is a custom-designed console server providing highly secure remote access to servers, routers, switches and other network equipment. With the Digi CM, network administrators have secure remote access to network equipment from anywhere, and at anytime, even when the network is down.

To see a live demo, test drive the Digi CM today at:
www.digi.com/cmdemo

Secure out-of-band management



Windows Server 2003

{ Digi CM 32 }

Digi CM

Digi CM

The Digi CM provides secure access to the serial console ports of Sun and Unix servers, Windows 2003 Servers, Cisco routers, Ethernet switches, intelligent power supplies, PBXs and anything else with a serial console port.

Security: Encryption is handled by Secure Shell (SSH v2), a robust, standards-based security protocol, designed to protect networks against unauthorized monitoring, i.e. sniffing. This same level of security is present in the secure HTTPS Web user interface. The Digi CM also permits secure access to users on a per port basis. Access to the Digi CM may be further restricted through the use of the firewall functionality of the IP filtering feature. RADIUS, TACACS+, Kerberos and LDAP authentication are all supported.

Data Collection: Port logging allows data center managers to monitor any activity on the ports, capturing important information from each port for troubleshooting in the event of a problem. Logs may be stored on another host, using syslog or an NFS mounted partition, or may be off-loaded to a Flash memory card in the PC card slot.

- Secure Shell (SSH v2 and v1) for data encryption
- HTTPS for secure configuration
- IP-filtering to restrict access
- Solaris Ready does not send unintentional break signals
- Port buffering and logging
- Multiple users per port
- Multi-level menuing multiple user per port for user specific access
- Auto alerts for customized alarm monitoring and notification
- Secure clustering
- PC card slot for modem or storage of log files
- Uses standard CAT 5 cables
- Dual (redundant) power on the Digi CM 48
- DC powered models available

{ Digi CM 8 }

Digi CM

Ease of Use: The Digi CM Auto Discovery reduces install and configuration to a 30-second, three step process. Administrators have the ability to create logically grouped, multi-level menus making it easy for users to find and connect to named devices. It also provides additional security by only allowing users visibility to their permitted devices.

The Digi CM also features a powerful Auto Alert system that instantly notifies network managers of system errors or failures. The customizable system continuously monitors the console ports of servers,

Alerts: The Digi CM 8 has eight RJ-45 ports for managing up to eight serial ports. The Digi CM 32 has 32 RJ-45 ports for managing up to 32 serial ports. Alerts are sent directly to a network manager's cell phone, pager or PDA for immediate response. Rapid notification of system errors is a key factor in maximizing network uptime.

The RJ-45 port on the Digi CM is the mirror of Sun Netra and Cisco router RJ-45 console ports, making cabling a straight CAT 5 solution for the most commonly managed devices. DB-25 and DB-9 adapters are provided for additional ease of installation.

- | | | |
|--------------------------|----------|----------|
| • Digi CM 8 | 70001931 | 70001932 |
| • Digi CM 16 | 70001910 | 70001911 |
| • Digi CM 16 - DC | 70001938 | 70001938 |
| • Digi CM 32 | 70001908 | 70001909 |
| • Digi CM 32 - DC | 70001937 | 70001937 |
| • Digi CM 48 | 70001949 | 70001950 |
| • Digi CM 48, Dual Power | 70001951 | 70001952 |
| • Digi CM 48 - DC | 70001953 | 70001953 |

For optional adapters, see page 51.

Edgeport
AnywhereUSB
Watchport
Wavespeed
Rapidport
Hubport
USB Plus Series

**USB RAS****Rapidport**

USB-to-four-port modem gives users access to ISP, fax and other dial-up group applications supported by Microsoft Windows NT RAS.

Hubport™

USB hubs for easy™ peripheral device connectivity.

Enterprise USB and Wireless Connectivity

Inside Out Networks, a Digi International company, is the leader in enterprise USB connectivity, offering out-of-the-box connectivity solutions for mission-critical applications requiring flexible I/O expansion. In addition to USB-to-serial converters, USB hubs and USB RAS, our product offering has expanded to include USB Over IP®, USB Environmental Monitoring, USB PlusPower and wireless connectivity. Feature-rich design, reliability and industry-leading operating system support (including Windows NT 4.0, CE, XP, 2000 and more) make our USB solutions ideal for applications like point-of-sale, mobile computing, medical, industrial automation and more.

USB to Serial Converters**Edgeport®**

Out-of-the-box alternative to serial cards for scalable I/O expansion. Includes serial, multi-interface, industrial and compact versions.

USB Over IP**AnywhereUSB®**

Network-enabled USB hub utilizes USB Over IP® technology to connect USB devices anywhere on a wired™ or wireless LAN – without a locally attached host PC.

Environmental Monitoring**Watchport™**

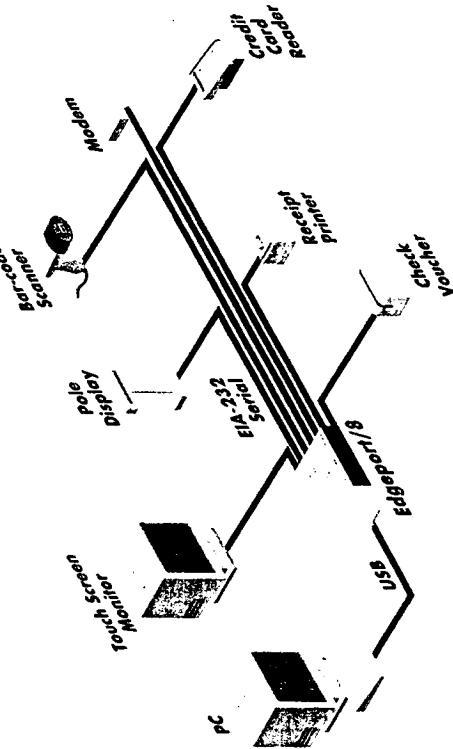
First complete line of USB devices for 24/7 environmental monitoring. Includes sensors and video solutions.

802.1b Wireless LAN and Wireless Serial**Wavespeed™**

USB-to-802.11b WLAN and wireless Bluetooth serial adapters.

USB PlusPower**USB Plus Series**

Card and hub solutions for powered USB peripheral device connectivity.

USB Point-of-Sale

USB-to-Serial Converters



```
{ EdgeReport/4 }
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USB-to-Serial Converters

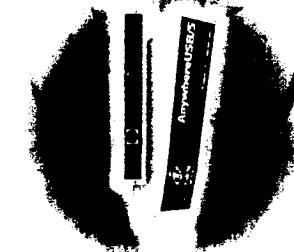


Edgeport/2c

Features	
Edgeport Edgeport USB-to-serial converters offer an easy Plug-and-Play solution for instant COM port expansion. An out-of-the-box (external) alternative to PCI cards, the Edgeport connects to the USB port of a PC, thin client, notebook or server, eliminating the need to open the chassis, reconfigure and reboot the system. Since flexibility and scalability is key, the Edgeport is available with a wide variety of options to meet specific application requirements.	<ul style="list-style-type: none"> • 1, 2, 4, 8, 12, or 16 serial ports • Additional USB or parallel ports • DB-9, DB-25, RJ-45 connectors • EIA-232, -422, -422/485 or EIA-232/422/485 (software selectable) • Versions with rugged metal enclosures • Captive (attached) cable options • Rack-mountable • Feature-rich design for enterprise applications • Easy Plug-and-Play installation – no need to open the chassis or power down and reconfigure the system

The Edgeport offers unmatched operating system support, including Windows NT 4.0, NT Embedded, XP, XP Embedded, CE, 2000, Me, 98, SE, 95, and Linux. Its reliable performance and feature-rich design make Edgeport ideal for point-of-sale, mobile computing, industrial automation, or any mission-critical application.

Part Numbers	North America	International
Edgeport Serial		
<ul style="list-style-type: none"> • Edgeport/1 (USB to 1 EIA-232 serial DB-9) • Edgeport/1 25-Unit Bulk Pack (25 ea. 301-1001-11) • Edgeport/1 100-Bulk Pack (100 ea. 301-1001-11) • Edgeport/1 Captive Cable (1 serial DB-9; attached 2m USB cable) • Edgeport/2 (USB to 2 EIA-232 serial DB-9) • Edgeport/4 (USB to 4 EIA-232 serial DB-9) • Edgeport/4/DB-25 (USB to 4 EIA-232 serial DB-25) • Edgeport/8 (USB to 8 EIA-232 serial DB-9) • Edgeport/8/DB-25 (USB to 8 EIA-232 serial DB-25) • Edgeport/8/E (USB to 8 EIA-232 serial RJ-45) • Edgeport/4/12 (USB to 4 USB, 12 EIA-232 serial DB-9) • Edgeport/4/12/DB-25 (USB to 4 USB, 12 EIA-232 serial DB-25) • Edgeport/4/16 (USB to 16 EIA-232 serial DB-9; rack-mountable) • Edgeport/4/16/DB-25 (USB to 4 USB, 16 EIA-232 serial DB-25; rack-mountable) 	<ul style="list-style-type: none"> 301-1001-11 301-1001-21 301-1001-22 301-1001-15 301-1000-02 301-1000-04 301-1016-01 301-1002-08 301-1016-08 301-1002-14 301-1004-12 301-2004-12 301-1016-12 301-2016-12 301-1000-10 301-2000-10 301-1016-16 	
Edgeport Compact		
<ul style="list-style-type: none"> • Edgeport/2c (USB to 2 EIA-232 serial DB-9; captive 2m cable) • Edgeport/22c (USB to 2 EIA-232 serial DB-9; 2 USB; captive 2m cable) 	<ul style="list-style-type: none"> 301-1003-10 301-1003-30 301-1003-30 	<ul style="list-style-type: none"> 301-1003-10 301-1003-30
Edgeport Industrial		
<ul style="list-style-type: none"> • Edgeport/1i (USB to 1 EIA-422/485, serial DB-9) • Edgeport/2i (USB to 2 EIA-422/485, serial DB-9) • Edgeport/2+2i (USB to 2 EIA-232 serial DB-9, 2 EIA-422 DB-9) • Edgeport/4i (USB to 4 EIA-422 serial DB-9) • Edgeport/4s MEI (USB to 4 EIA-232/422/485 software-selectable serial DB-9) • Edgeport/8i (USB to 8 EIA-422 serial DB-9) 	<ul style="list-style-type: none"> 301-1001-31 301-1000-12 301-1022-04 301-1000-24 301-1000-94 301-1000-28 	<ul style="list-style-type: none"> 301-1001-31 301-1000-12 301-1022-04 301-1000-24 301-1000-94 301-1000-28
Edgeport Multi-Interface		
<ul style="list-style-type: none"> • Edgeport/21 (USB to 2 EIA-232 serial DB-9, 1 parallel) • Edgeport/421 (USB to 4 USB, 2 EIA-232 serial DB-9, 1 parallel) • Edgeport/42+ (USB to 4-port Powered USB hub; 2 serial DB-9; power supply) 	<ul style="list-style-type: none"> 301-1000-21 301-1004-21 301-1001-42 	<ul style="list-style-type: none"> 301-1000-21 301-2004-21 301-2001-42
Edgeport Metal		
<ul style="list-style-type: none"> • Edgeport/2m (USB to 2 EIA-232 serial DB-9; metal chassis) • Edgeport/4m (USB to 4 EIA-232 serial DB-9; 2 USB; metal chassis) 	<ul style="list-style-type: none"> 301-1000-80 301-1000-81 	<ul style="list-style-type: none"> 301-1000-80 301-1000-81
Edgeport USB Plus		
<ul style="list-style-type: none"> • Edgeport/42+ (4 powered USB, 2 EIA-232 serial DB-9) 	<ul style="list-style-type: none"> 301-1001-42 	<ul style="list-style-type: none"> 301-2001-42
For additional cables, see page 56.		
Call for bulk packaging and customized cable options.		



USB Over IP

USB Over IP

{ AnywhereUSB/5 }

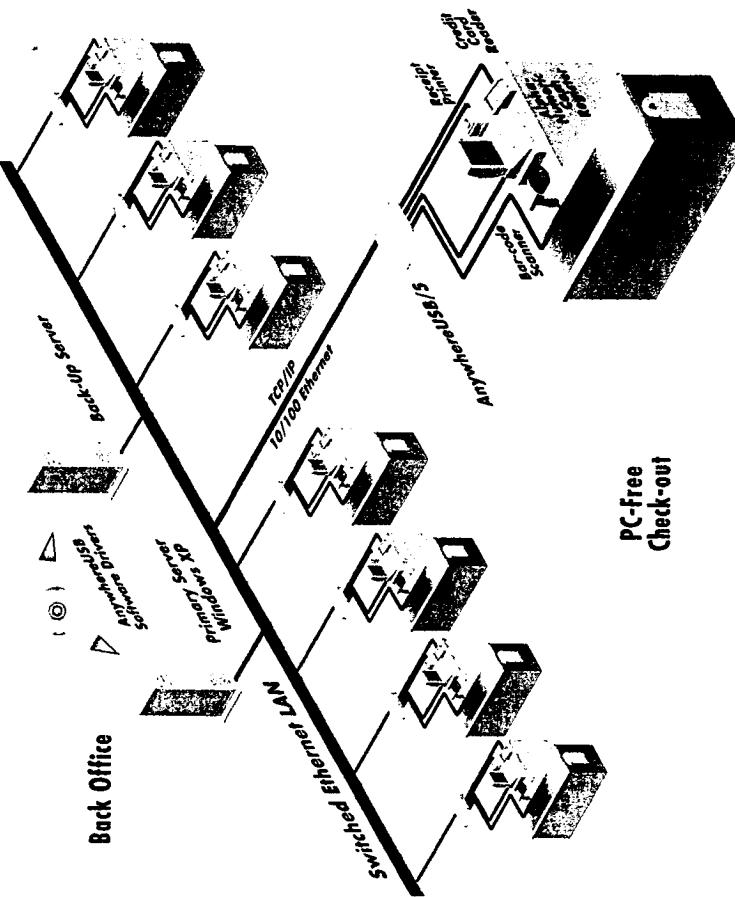
Features

AnywhereUSB

AnywhereUSB utilizes USB Over IP technology to connect USB devices anywhere on a TCP/IP network, without requiring a local connection to a PC. This network-enabled USB hub can simplify operations in retail or other mission-critical environments by allowing for centralized control, less user intervention, lower installation overhead and fewer problems since no local PC is required. Plus, AnywhereUSB works with existing application software, further protecting a company's technology investment. AnywhereUSB/5 offers five USB ports to connect non-isochronous peripheral devices like bar-code scanners and receipt printers, as well as our Watchport/V USB camera, Watchport sensors and Edgeport USB-to-serial converters.

AnywhereUSB

- Network-enables USB or other POS devices
- Breaks 5-meter USB cabling distance limitation
- Allows retailers to create a thinner POS station or kiosk by moving PC to remote location
- Increases security and simplifies operations
- Enables centralized monitoring of remote devices
- Supports Windows NT 4.0, XP Embedded, XP, XP Embedded and 2000



Part Numbers	North America	International
AnywhereUSB	301-1130-01	301-2130-01

• AnywhereUSB/5 (Ethernet to 5 USB ports)

PC-free Check-out



{ Watchport/H }

Environmental Monitoring

Environmental Monitoring Environmental Monitoring

Features

Watchport Sensors

- A la carte product selection allows total customization
- Easy USB installation and software configuration
- Free Watchport Manager software sends alerts for remote monitoring
- Extend distance between USB base and sensing device with CAT5 UTP cable for added flexibility
- Combine with Watchport/V USB camera for video monitoring
- Compatible with Windows NT 4.0, CE, XP, 2000 and more

Watchport Sensors
Watchport sensors make it easy to create a made-to-order environmental monitoring system to pre-empt system failures, extend life of equipment and reduce downtime.

Choose from USB-attached sensors to measure proximity, humidity, temperature and water for complete customization. Watchport Manager software provides centralized device status, supports data logging to preserve historical information and enables the easy integration of multiple sensors without additional software development. For remote monitoring applications, Watchport Manager can send pager, email or onscreen alarms when undesirable conditions are detected. Watchport Sensors are ideal for kiosks, ATMs, data centers, server rooms or any mission-critical environment.

{ Watchport/V }

Features

Watchport/V USB Camera

- Exceptional low light sensitivity (<1 lux)
- Resolution to 1280 x 960 (software enhanced)
- Only USB camera with drivers for Windows NT 4.0 and NT Embedded; also supports XP, XP Embedded, 95, 98, 2000
- Lossless video compression technology
- Up to 60 frames per second
- Software gain and shutter control
- Identical to 3Com HomeConnect™ Digital PC WebCam
- Optional lens package available: 3mm wide angle, 8mm close-up, 12mm telephoto
- Watchport Motion Detection software available

Watchport/V USB Camera

Watchport/V is a cost-effective, high-performance solution for POS, kiosks, ATMs and other applications utilizing camera surveillance. It offers exceptional low light sensitivity and is the only USB camera available with drivers for Windows NT. Plug-and-Play installation and a replaceable lens make Watchport/V easy to integrate into new or existing applications. Watchport Motion Detection software is now available, providing a cost-effective way to create a remote monitoring system to protect your office, home, warehouse, data room, gas pump, cash register or other property.

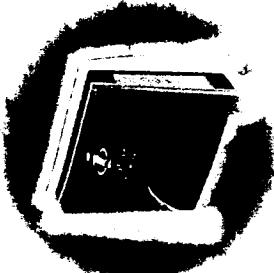


Watchport/V USB Camera

Watchport/V is a cost-effective, high-performance solution for POS, kiosks, ATMs and other applications utilizing camera surveillance. It offers exceptional low light sensitivity and is the only USB camera available with drivers for Windows NT. Plug-and-Play installation and a replaceable lens make Watchport/V easy to integrate into new or existing applications. Watchport Motion Detection software is now available, providing a cost-effective way to create a remote monitoring system to protect your office, home, warehouse, data room, gas pump, cash register or other property.

Part Numbers	North America	International
Watchport Series		
• Watchport/H Humidity and Temperature Sensor	301-1141-01	301-1141-01
• Watchport/P Proximity Sensor	301-1143-01	301-1143-01
• Watchport/T Temperature Sensor	301-1144-01	301-1144-01
• Watchport/V USB Camera	301-9010-01	301-9010-01
• Watchport/V Lens Package (optional)	301-9015-01	301-9015-01
• Watchport/W Water Detector	301-1145-01	301-1145-01
• Watchport Sentry Software License (single camera per host)	301-9026-01	301-9026-01
• Watchport Console Software License (4 cameras per host)	301-9027-01	301-9027-01
• Watchport Console Plus Software License (8 cameras per host)	301-9028-01	301-9028-01
• Watchport Console Extra License (for additional Console connections)	301-9029-01	301-9029-01

Additional USB sensors in development. Call for information.

802.11b Wireless LAN

{ Wavespeed/LAN }

Features**Wavespeed/LAN**

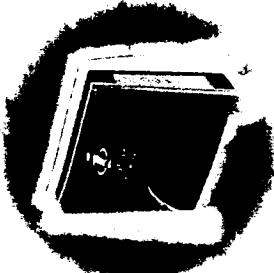
The Wavespeed/LAN offers USB to wireless Ethernet expansion, combining the ease of Plug-and-Play USB connectivity with the flexibility and mobility of wireless networking. Fully compliant with the IEEE 802.11b wireless standard, the Wavespeed/LAN connects to a PC, laptop or thin client via the USB port to provide a high-speed wireless Ethernet connection – without the overhead associated with implementing a wired network. The Wavespeed/LAN is the first USB to wireless LAN adapter to support the full range of Windows platforms, including Windows NT 4.0, NT Embedded, XP and XP Embedded, making it an ideal solution for mission-critical applications like point-of-sale and mobile computing, where reliability and data integrity are essential.

Features

- 802.11b compliant
- Supports both peer-to-peer (ad-hoc) and access point communication
- USB-powered – no external power supply required
- Use for mobile POS stations and kiosks to increase customer convenience
- Supports Windows NT 4.0, NT Embedded and more

- Instant serial cable replacement and PDA connectivity
- Standalone solution connects to device or host - no host PC or application software required
- Bluetooth 1.1 compatible
- Windows-based configuration tool for easy set-up
- In-range/out-of-range indicator enables event triggering, increases security
- Optional battery pack for added mobility
- Two radios available: Class 1 for distances up to 100 m (328 ft); Class 2 for distances up to 10 m (32 ft)

{ Wavespeed/S }

Wireless Serial**Features****Wavespeed/S**

The Wavespeed/S wireless serial adapters offer secure wireless serial (EIA-232) data transfer via Bluetooth technology. Two Wavespeed/S units may be bonded, or paired, with a host PC and bar-code scanner, receipt printer, scale or other device to create a wireless link for instant serial cable replacement. One Wavespeed/S may be used in Serial Port Profile (SPP) server mode, which makes it available to communicate with a SPP-capable Bluetooth device such as a PDA, PLC or WAN radio. This standalone solution is transparent to the host application software – it acts as the serial cable and transfers data wirelessly without special software or drivers. Wavespeed/S instantly increases user mobility in mobile computing (delivery trucks, emergency vehicles), medical and point-of-sale applications.

Part Numbers**Wavespeed/S**

- | North America | International |
|--|---------------|
| • Wavespeed/S Class 1 (EIA-232 serial DB-9 to wireless; Class 1 radio) | 301-11121-01 |
| • Wavespeed/S Class 1 Pair (EIA-232 serial DB-9 to wireless; Class 1 radio, 2 units) | 301-11123-01 |
| • Wavespeed/S Class 2 (EIA-232 serial DB-9 to wireless; Class 2 radio) | 301-11122-01 |
| • Wavespeed/S Class 2 Pair (EIA-232 serial DB-9 to wireless; Class 2 radio, 2 units) | 301-11124-01 |
| • Wavespeed/S Battery (optional) | 301-11126-01 |

Additional versions coming soon. Contact us for details.

North America International

Part Numbers	North America	International
Wavespeed/LAN	301-11177-01 • Wavespeed/LAN (USB to Wireless Ethernet Adapter)	not available



{ Rapidport/4 }

Features	
Rapidport	<ul style="list-style-type: none"> • Plug-and-Play • Four RJ-11 phone ports • Broad homologation—approved for sale in most countries • Includes built-in USB hub • Supports Windows 95, 98, 2000, Me, NT 4.0, NT Embedded, XP, XP Embedded and Linux
Hubport	<ul style="list-style-type: none"> • Industrial-grade USB hub • Four- and seven-port models • Individual port power management • Stack and power additional Edgeport, Rapidport and Watchport units • Plug-and-Play installation

Rapidport

Rapidport/4® offers instant Plug-and-Play multi-modem expansion. This external, user-installable solution plugs into the USB port of a PC, thin client or server to provide four 56K V.90 modems. The onboard USB hub enables users to stack and daisy chain up to five units per system. Rapidport/4 gives network users access to ISP, fax and other group dial-up applications supported by Windows NT RAS.

Hubport

The Hubport is an industrial-grade solution for adding USB ports to a PC or server. Available in four- and seven-port models, the Hubport can be used to connect USB peripheral devices, or to stack and power any of our USB solutions.

{ Hubport/4+ and Hubport/PCI+ }

Features	
USB Plus Series	<ul style="list-style-type: none"> • Four powered USB ports (1 @ 24V, 3 @ 12V) • Eliminates individual power supply bricks for USB peripheral devices • Supplies power and communication signals over a hot-pluggable USB cable • PowerBalance™ ensures maximum power to 12V and 24V devices • Card and hub versions • Compatible with standard and powered USB devices

USB Plus Series

The USB Plus Series makes it easy to add USB PlusPower, or powered USB, ports to a standard, low-cost PC, transforming a small footprint CPU into a high-performance retail system. The USB Plus Series saves space and simplifies system architecture by eliminating power supply bricks for USB devices like printers, bar-code scanners and signature capture devices, while maintaining the Plug-and-Play end user experience inherent to USB connectivity.

PowerBalance™ technology provides maximum power to 12 volt and 24 volt peripherals without exhausting the PC's five or 12 volt power. Hubport/4+ is an externally powered hub that connects to a standard USB port. Hubport/PCI+, a card solution, is available in both internally powered and externally powered versions. Edgeport/42+, with four powered USB and two EIA-232 serial DB-9 ports, offers added I/O expansion flexibility.

**Part Numbers****USB Plus Series**

- Hubport/4+ (USB to 4-port powered USB hub; power supply)
 - Edgeport/42+ (USB to 4-port powered USB hub; 2 serial DB-9; power supply)
 - Hubport/PCI+ (PCI to 4-port powered USB card; internally powered)
 - Hubport/PCI+ (PCI to 4-port powered USB card; optional power supply sold separately)
 - Hubport/PCI+ (PCI to 4-port powered USB card with external power supply)
 - Hubport/PCI+ Power Supply (optional power supply for 301-1149-01)
- Additional versions coming soon. Contact us for details.

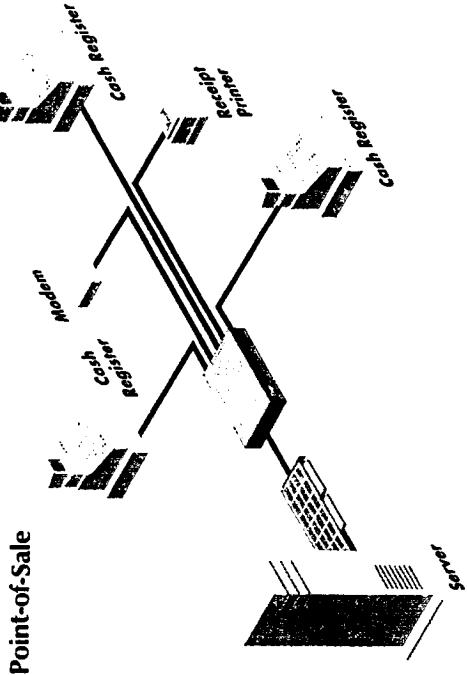
North America International

Part Numbers	North America	International
Rapidport		
<ul style="list-style-type: none"> • Rapidport/4 (Four K56flex/V.90 modems, RJ-11) • Rapidport/4 Dual Unit (2 Rapidport/4 modules) 	<ul style="list-style-type: none"> 301-1012-04 301-1012-08 	<ul style="list-style-type: none"> 301-2012-04 301-2012-08
Hubport		
<ul style="list-style-type: none"> • Hubport/4 (4-port USB hub) • Hubport/7 (7-port USB hub) 	<ul style="list-style-type: none"> 301-1010-04 301-1010-07 	<ul style="list-style-type: none"> 301-2010-04 301-2010-07

Part Numbers**USB Plus Series**

- Hubport/4+ (USB to 4-port powered USB hub; power supply)
 - Edgeport/42+ (USB to 4-port powered USB hub; 2 serial DB-9; power supply)
 - Hubport/PCI+ (PCI to 4-port powered USB card; internally powered)
 - Hubport/PCI+ (PCI to 4-port powered USB card; optional power supply sold separately)
 - Hubport/PCI+ (PCI to 4-port powered USB card with external power supply)
 - Hubport/PCI+ Power Supply (optional power supply for 301-1149-01)
- Additional versions coming soon. Contact us for details.

AccelePort Xp
AccelePort Xe
AccelePort C/X
AccelePort Xem
Digi Neo
ClassicBoard



Expandable Serial Solutions

External expandable systems using a single PC slot for high-port count applications and easy port count expansion.

AccelePort® C/X

Most widely used asynchronous cluster technology providing up to 128 ports on Universal PCI platforms within 1000 feet (305 meters) from the host.

AccelePort® Xem

Intelligent, cost-effective serial expansion system providing up to 64 ports within 10 (3,048 meters) feet from the host.

Standard Serial Solutions

Products for basic applications not requiring on-board processing.

Digi Neo®

Solutions for two-, four- or eight-port Universal PCI platforms. The ASIC Uarts and the streamlined drivers allow this solution to have latency levels matching or better than on-board serial ports.

ClassicBoard™

Cost-effective card provides four or eight ports for ISA or PCI platforms.

Multiport Serial Cards

The Digi multiport serial card product line, the original DigiBoard, is the #1 selling serial card product line in the world. It offers the highest level of operating system support, serial port capacity, I/O performance, transmission distance, environmental tolerance and upgradability for all your application needs.

High-Performance Serial Solutions

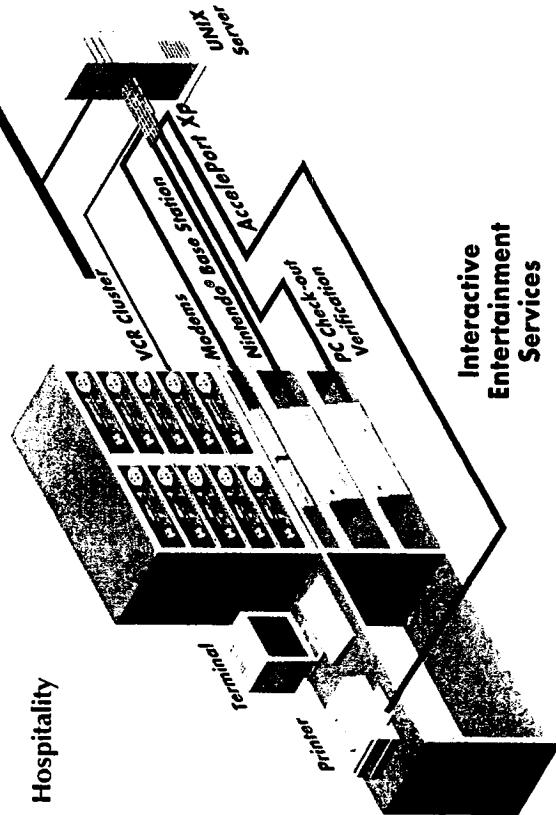
Powerful, professional-grade micro-processor-based products enabling fast, reliable and flexible connections for all applications.

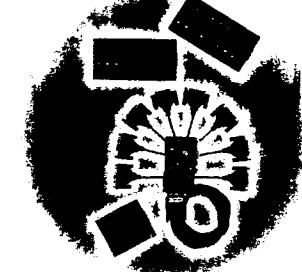
AccelePort® Xp

Highly integrated, powerful RISC processor-based card provides the highest level of intelligence and the most advanced design available on the market. Provides speeds of 921.6 Kbps bi-directionally on all ports in two-, four-, eight- and 16-port Universal PCI (3.3V and 5V) models.

AccelePort® Xe

Solutions for two-, four- or eight-port ISA platforms.





{ AccelePort Xp } { AccelePort Xp }

High-Performance

Features

- AccelePort Xp
 - PCI 2.3 and PCI-X compatible
 - Supports both 3.3V and 5V
 - EIA-232 connections
 - Two to 16 ports provide wide application flexibility; scalable to 64 ports using four slots
 - Simultaneously supports data speeds of 921.6 Kbps, bi-directionally, on all ports
 - Industry leading multi-strike surge protection on all signals and ports
 - Broadest range of operating system support available (see page 58).
 - Wide array of DB-9, DB-25 and RJ-45 connector options (see page 53).
 - Low-profile PCI compliant option
- AccelePort Xp**
- The AccelePort Xp is a powerful, highly integrated RISC processor-based card that delivers the highest level of intelligence and most advanced performance available on the market. The advanced design includes:
- Small form factor and robust cabling ensures easy installation.
 - PortAssist® Manager, Digi's powerful, browser-based management and reporting software.
 - Complete customization for non-standard baud rates, flow control, IRQ or polling selectability and programmable latency level.

High-Performance

Features

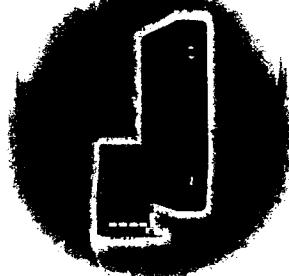
- AccelePort Xe
- ISA compatible
- Supports 5V only
- EIA-232 or EIA-422 connections
- Two-, four- or eight-port models scalable up to 32 ports for EIA-232 applications
- Four- or eight-port models scalable up to 32 ports for EIA-422 applications
- Supports speeds up to 115.2 Kbps on two ports

Features

- AccelePort Xe
- The AccelePort Xe provides intelligent, cost-effective micro-processor-based control for ISA bus platforms. With proven performance, reliability and flexibility, the AccelePort Xe continues to be the most popular ISA bus multiport serial card solution for point-of-sale, industrial automation, data collection and many other applications.
- The AccelePort Xe supports speeds up to 115.2 Kbps, offers programmable options including IRQ or polling selectability and is available in both EIA-232 and EIA-422 models.

Making Device Networking Easy™

Part Numbers	North America	International	Part Numbers	North America	International
AccelePort Xp			AccelePort Xe - 232 ISA Bus		
• AccelePort 2p (DB-9M connectors on board)	77000659	77000659	• AccelePort 2e (DB-9M connectors on board)	77000248	77000248
• AccelePort 4p (RJ-45 connectors on board)	77000838	77000838	• AccelePort 4e*	77000035	77000035
• AccelePort 4p*	77000706	77000706	• AccelePort 4e (w/DB-25M fan-out cable)	70000737	70000737
• AccelePort 4p (w/DB-25M fan-out cable)	70001549	70001549	• AccelePort 8e*	77000037	77000037
• AccelePort 8p*	77000707	77000707	• AccelePort 8e (w/DB-25M fan-out cable)	70000738	70000738
• AccelePort 8p (w/DB-25M fan-out cable)	70001548	70001548	AccelePort Xe - 422 ISA Bus		
• AccelePort 16p*	77000708	77000708	• AccelePort 4e (w/DB-25M fan-out cable)	70000939	70000939
• AccelePort 16p (includes RJ-45 mounting rack)	70001557	70001557	• AccelePort 4e (w/DB-9M fan-out cable)	70001058	70001058
• AccelePort 16p (includes DB-25 mounting rack)	70001550	70001550	• AccelePort 8e (w/DB-25M fan-out cable)	70000938	70000938
• AccelePort 4p Low Profile*	77000845	77000845	• AccelePort 8e (w/DB-9M fan-out cable)	70001059	70001059
• AccelePort 8p Low Profile*	77000846	77000846	*Cables sold separately - see page 53.		

**Expandable****PCI 3.3V Universal Card****Features**

- AccelePort C/X
- PCI and PCI-X compatible
- Supports both 3.3V and 5V
- EIA-232 connections
- Supports up to 128 ports per slot within 1000 feet (305 meters) from the host
- Expansion via C/CON modules
- Supports speeds up to 115.2 Kbps
- Surge protection on all ports
- Rack mount version (1U available)

AccelePort C/X System
Delivering the highest level of serial I/O expansion capability, the C/X system is highly scalable for configuring direct LAN or multi-user solutions. The basic system includes an intelligent, RISC-based host card and a C/CON concentrator, providing eight or 16 surge-protected EIA-232 ports that can be daisy-chained up to 1000 feet (305 meters) from the host or remotely connected via a variety of options, which include fiber optic, multiplexers (MUX), CSU/DSUs and ISDN terminal adapters.

Expandable**PCI 3.3V Universal Card****Features**

- AccelePort Xem
- PCI, PCI-X and ISA compatibility
- Supports both 3.3V and 5V
- EIA-232 and EIA-422 connections
- Supports up to 64 ports within ten feet (3 meters) from host
- Speeds up to 115.2 Kbps on up to 32 ports and 57.6 Kbps on more than 32 ports
- Expansion via PORTS modules (up to four); (see page 57)
- Surge protection on all ports
- Rack mount version (1U) available

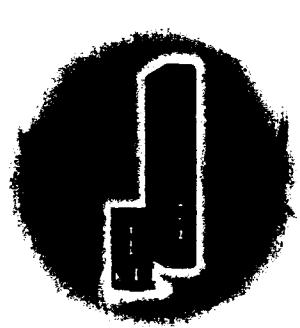
AccelePort Xem
The AccelePort Xem system is Digi's most widely used multiport serial product. The AccelePort Xem is an expandable, intelligent system that delivers cost-effective serial I/O. The basic system includes an intelligent, asynchronous host card and a Digi PORTS module, providing eight or 16 surge-protected EIA-232 ports that can be daisy-chained up to ten feet (3 meters) from the host. The AccelePort Xem is also available in a 1U rack mount version.

Part Numbers**AccelePort C/X - 232 PCI Bus**

Part Numbers	North America	International	Part Numbers	North America	International	Part Numbers	North America	International
• AccelePort C/X 8-port system (RJ-45)	70001171	70001172	• AccelePort 8em system (DB-25)	70001206	70001206	• AccelePort 8em system (RJ-45)	70001206	70001206
• AccelePort C/X 8-port system (DB-25)	70001229	70001230	• AccelePort 16em system (RJ-45)	70001208	70001208	• AccelePort 8em system (DB-25)	70001208	70001208
• AccelePort C/X 16-port system (RJ-45)	70001167	70001168	• AccelePort 16em system (RJ-45)	70001201	70001201	• AccelePort 16em system (RJ-45)	70001201	70001201
• AccelePort C/X 16-port system (DB-25)	70001231	70001232	• AccelePort 16em system (DB-25)	70001203	70001203	• AccelePort 16em system (DB-25)	70001203	70001203
• AccelePort C/X 16-port rack system (RJ-45)	70001175	70001176	• AccelePort 16em host card only	770000455	770000455	• AccelePort 16em rack system (RJ-45)	70001757	70001757
• AccelePort C/X host card only	70000448	770000448	• AccelePort 16em system (DB-25)	70001208	70001208	• AccelePort 16em system (RJ-45)	70001201	70001201
Additional Concentrator Boxes			• AccelePort 16em system (RJ-45)	70001203	70001203	• AccelePort 16em system (DB-25)	70001203	70001203
• C/CON-8 (RJ-45)*	76000216	76000217	• AccelePort 16em host card only	770000455	770000455	• AccelePort 16em rack system (RJ-45)	70001757	70001757
• C/CON-8 (DB-25)*	76000218	76000219	• AccelePort 16em system (DB-25)	70001208	70001208	• AccelePort 16em system (DB-25)	70001201	70001201
• C/CON-16 (RJ-45)*	76000067	76000068	• AccelePort 16em system (RJ-45)	70001203	70001203	• AccelePort 16em system (RJ-45)	70001201	70001201
• C/CON-16 (DB-25)*	76000069	76000070	• AccelePort 16em host card only	770000455	770000455	• AccelePort 16em system (DB-25)	70001203	70001203
• C/CON-16 rack mount model (RJ-45)*	76000147	76000158	• AccelePort 16em system (DB-25)	70001559	70001559	• AccelePort 16em system (DB-25)	70001559	70001559

*Includes one ten-foot (3-meter) daisy-chain cable.
For additional cables and accessories, see page 52 and 57.

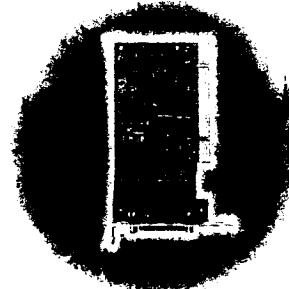
For additional PORTS modules and power supplies, see page 57.
www.digi.com/acceleportxem

**{ AccelePort C/X System }****Features**

- AccelePort C/X
- PCI and PCI-X compatible
- Supports both 3.3V and 5V
- EIA-232 connections
- Supports up to 128 ports per slot within 1000 feet (305 meters) from the host
- Expansion via C/CON modules
- Supports speeds up to 115.2 Kbps
- Surge protection on all ports
- Rack mount version (1U available)

AccelePort Xem
The AccelePort Xem system is Digi's most widely used multiport serial product. The AccelePort Xem is an expandable, intelligent system that delivers cost-effective serial I/O. The basic system includes an intelligent, asynchronous host card and a Digi PORTS module, providing eight or 16 surge-protected EIA-232 ports that can be daisy-chained up to ten feet (3 meters) from the host. The AccelePort Xem is also available in a 1U rack mount version.

Part Numbers	North America	International	Part Numbers	North America	International	Part Numbers	North America	International
• AccelePort 8em system (DB-25)	70001206	70001206	• AccelePort 8em system (RJ-45)	70001206	70001206	• AccelePort 8em system (DB-25)	70001206	70001206
• AccelePort 16em system (RJ-45)	70001208	70001208	• AccelePort 16em system (RJ-45)	70001208	70001208	• AccelePort 16em system (DB-25)	70001208	70001208
• AccelePort 16em system (DB-25)	70001201	70001201	• AccelePort 16em system (DB-25)	70001201	70001201	• AccelePort 16em system (RJ-45)	70001201	70001201
• AccelePort 16em system (RJ-45)	70001203	70001203	• AccelePort 16em system (RJ-45)	70001203	70001203	• AccelePort 16em system (DB-25)	70001203	70001203
• AccelePort 16em host card only	770000455	770000455	• AccelePort 16em rack system (RJ-45)	70001757	70001757	• AccelePort 16em system (DB-25)	70001203	70001203
• AccelePort 16em system (DB-25)	70001208	70001208	• AccelePort 16em system (RJ-45)	70001208	70001208	• AccelePort 16em system (DB-25)	70001208	70001208
• AccelePort 16em system (RJ-45)	70001201	70001201	• AccelePort 16em system (DB-25)	70001201	70001201	• AccelePort 16em system (RJ-45)	70001201	70001201
• AccelePort 16em system (DB-25)	70001203	70001203	• AccelePort 16em system (RJ-45)	70001203	70001203	• AccelePort 16em system (DB-25)	70001203	70001203
• AccelePort 16em system (RJ-45)	770000455	770000455	• AccelePort 16em rack system (RJ-45)	70001757	70001757	• AccelePort 16em system (DB-25)	70001203	70001203



Standard

{ Digi Neo }

PCI
3.3V Universal Card

Features

- Digi Neo
- PCI and PCI-X compatible
- Supports 3.3V and 5V
- EIA-232 solutions
- Two-, four- or eight-port models, scalable to 32 ports using four slots
- Supports speeds exceeding 460.8 Kbps bi-directionally on all ports
- Surge suppression on all ports
- Low profile PCI compliant
- Low latency

Digi Neo
The Digi Neo is based on an integrated 32-bit ASIC delivering speeds exceeding 460.8 Kbps bi-directionally on each port. With its low-profile form factor and robust cabling, the Digi Neo ensures that installation in today's smaller servers goes smoothly, while conserving space, reducing cable clutter and providing reliable connections.

The Digi Neo provides an enhanced software monitoring and diagnostic tool for Windows operating systems and a similar tool for UNIX and Linux environments.

Standard

{ ClassicBoard }

	Features
ClassicBoard	<ul style="list-style-type: none"> • PCI and ISA compatible • Supports 5V only • EIA-232 or EIA-422 connections • Four- or eight-port models • Supports speeds up to 115.2 Kbps on ISA platforms • Supports speeds up to 460.8 Kbps on PCI platforms • 460.8 Kbps for ISA bus platforms and 460.8 Kbps for PCI bus platforms.

ClassicBoard

Offering high reliability and ease of installation for dedicated environments, the Digi ClassicBoard asynchronous serial card provides the ultimate in standard, serial communications technology. Based on 16C654 UARTs, the ClassicBoard delivers data throughput at speeds up to 115.2 Kbps for ISA bus platforms and 460.8 Kbps for PCI bus platforms.

The ClassicBoard supports both EIA-232 and EIA-422 connections and provides a wide variety of connector options (DB-25, DB-9 and RJ-45) to meet virtually every application or system requirement.

North America International

Part Numbers	ClassicBoard - 232 PCI Bus	North America	International
	<ul style="list-style-type: none"> • ClassicBoard 4' • ClassicBoard 8' 	77000576	77000578

Part Numbers	ClassicBoard - 422 PCI Bus	North America	International
	<ul style="list-style-type: none"> • ClassicBoard 4 EIA-422* • ClassicBoard 8 EIA-422* 	770005862	770005863
	<ul style="list-style-type: none"> • ClassicBoard 4 EIA-422* • ClassicBoard 8 EIA-422* 	770005862	770005863

Part Numbers	ClassicBoard - 232 ISA Bus	North America	International
	<ul style="list-style-type: none"> • ClassicBoard 4' • ClassicBoard 8' 	77000435	77000434
	<ul style="list-style-type: none"> • ClassicBoard 4' • ClassicBoard 8' 	77000435	77000434
	<ul style="list-style-type: none"> • ClassicBoard 4' • ClassicBoard 8' 	77000435	77000434
	<ul style="list-style-type: none"> • ClassicBoard 4' • ClassicBoard 8' 	77000435	77000434

Part Numbers	ClassicBoard - 422 ISA Bus	North America	International
	<ul style="list-style-type: none"> • ClassicBoard 4 (w/DB-9M cable) • ClassicBoard 4 (w/DB-25M cable) • ClassicBoard 8 (w/DB-9M cable) • ClassicBoard 8 (w/DB-25M cable) 	70001267	70001267
	<ul style="list-style-type: none"> • ClassicBoard 4 (w/DB-9M cable) • ClassicBoard 4 (w/DB-25M cable) • ClassicBoard 8 (w/DB-9M cable) • ClassicBoard 8 (w/DB-25M cable) 	70001269	70001269
	<ul style="list-style-type: none"> • ClassicBoard 4 (w/DB-9M cable) • ClassicBoard 4 (w/DB-25M cable) • ClassicBoard 8 (w/DB-9M cable) • ClassicBoard 8 (w/DB-25M cable) 	70001266	70001266
	<ul style="list-style-type: none"> • ClassicBoard 4 (w/DB-9M cable) • ClassicBoard 4 (w/DB-25M cable) • ClassicBoard 8 (w/DB-9M cable) • ClassicBoard 8 (w/DB-25M cable) 	70001268	70001268

*Cables sold separately - see page 53.

Making Device Networking Easy™

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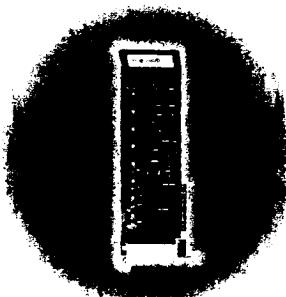
www.digi.com/digineo

www.digi.com/classicboard

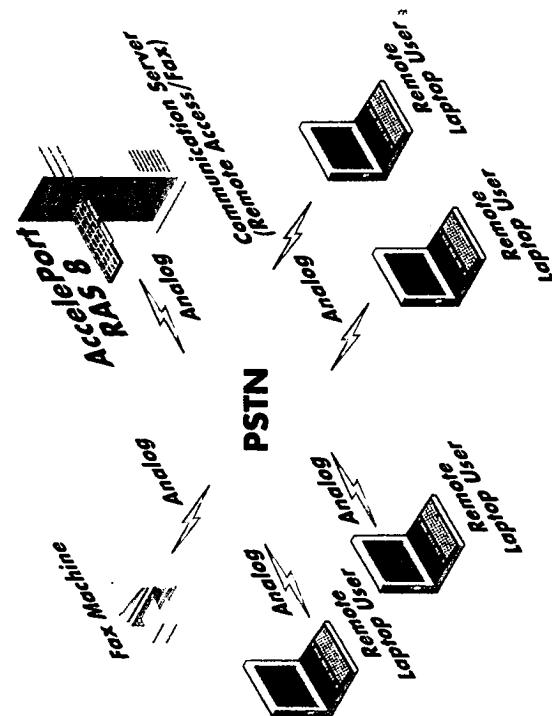
49

AccelePort RAS

{ AccelePort RAS }

Analog Adapter**Features****AccelePort RAS**

- Supports up to eight V.90/fax connections per PCI slot
- Scalable system architecture
- Wide operating system and third party application support
- Digi PortAssist Manager software included
- Supports 3.3v and 5v PCI systems

Remote Access/Fax**AccelePort RAS**

The AccelePort RAS Family of multi-modem analog adapters provides high-performance and cost-effective communication capabilities. It is an ideal choice for a wide variety of applications including data acquisition, fax connectivity, Remote Access Services (RAS), modem pooling and branch office gateways.

The AccelePort RAS 4 provides four high-speed analog connections. The AccelePort RAS 8 provides up to eight simultaneous high-speed analog connections. As your needs grow, expansion is as easy as adding another adapter to the server.

Part Numbers**AccelePort RAS**

- AccelePort RAS 4 North America
- AccelePort RAS 4 Europe (Austria, Belgium, Denmark, Finland, France, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom)
- AccelePort RAS 4 Germany, South Africa
- AccelePort RAS 4 Australia, New Zealand, Switzerland
- AccelePort RAS 4 Latin America (Mexico, Argentina, Chile)
- AccelePort RAS 4 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan)
- AccelePort RAS 8 Israel, Hungary
- AccelePort RAS 8 North America
- AccelePort RAS 8 Europe (Austria, Belgium, Denmark, Finland, France, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom)
- AccelePort RAS 8 Germany, South Africa
- AccelePort RAS 8 Australia, New Zealand, Switzerland
- AccelePort RAS 8 Latin America (Mexico, Argentina, Chile)
- AccelePort RAS 8 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan)

Multi-Modem Communication Adapters**Analog Solutions**

High performance communication adapter providing four or eight high-speed analog connections supporting V.90 modem/fax applications.

{ Connector Options }

**Digi One TS, PortServer TS, Digi One RealPort and
AccelePort Xem, C/X Connector Options**

Part Numbers	North America	International
Cable Adapter Options, one cable needed per port		
<ul style="list-style-type: none"> RJ-45/DB-25M 24-in (61 cm) straight-thru cable RJ-45/DB-25M 48-in (122 cm) straight-thru cable RJ-45/DB-25F 24-in (61 cm) straight-thru cable RJ-45/DB-25F 48-in (122 cm) straight-thru cable RJ-45/DB-9F 24-in (61 cm) straight-thru cable RJ-45/DB-9F 48-in (122 cm) straight-thru cable RJ-45/DB-9M 24-in (61 cm) straight-thru cable RJ-45/DB-9M 48-in (122 cm) straight-thru cable RJ-45/DB-25F 48-in (122 cm) crossover cable RJ-45/DB-9F 48-in (122 cm) crossover cable RJ-45/DB-25M 24-in (61 cm) printer cable RJ-45 10-pin to RJ-45 8-pin modem cable for 3Com/USR, Compaq/Microcom, Hayes DB-9F/DB-9F 48-in (122 cm) crossover cable 		
76000129	76000195	76000198
76000199	76000200	76000201
76000239	76000240	76000240
76000444	76000645	76000643
76000566	76000642	76000642
76000631	76000632	76000632
76000633	76000633	76000633
Solutions for Cisco/SunNetra RJ-45 Console Connections		
<ul style="list-style-type: none"> Single RJ-45/RJ-45 6-foot (183 cm) crossover cable Eight-pack RJ-45/RJ-45 6-foot (183 cm) crossover cable 16-pack RJ-45/RJ-45 6-foot (183 cm) crossover cable 		
76000211	76000211	76000212
76000212		
Part Numbers	North America	International

Digi CM Cable Adapter Options

Use with standard Straight-thru RJ-45 cable	North America	International
<ul style="list-style-type: none"> RJ-45 to DB-25M modem adapter; straight, bundle of 8 RJ-45 to DB-9F console adapter, crossover, bundle of 8 RJ-45 to DB-25M console adapter, crossover, bundle of 8 RJ-45 to DB-25F console adapter, crossover, bundle of 8 RJ-45 to DB-9M modem adapter, straight, bundle of 8 	<ul style="list-style-type: none"> 76000670 76000671 76000672 76000673 76000702 	<ul style="list-style-type: none"> 76000697 76000698 76000699 76000700 76000701
Cable Adapter Options		
<ul style="list-style-type: none"> RJ-45 to DB-9F console adapter, crossover, bundle of 4 RJ-45 to DB-25M console adapter, crossover, bundle of 4 RJ-45 to DB-25F console adapter, crossover, bundle of 4 RJ-45 to DB-25M modem adapter, straight, bundle of 4 RJ-45 to DB-9M modem adapter, straight, bundle of 4 RJ-45 to DB-25M printer adapter, crossover, bundle of 4 		
76000697	76000698	76000699
76000700	76000701	76000692
Part Numbers	North America	International

{ Connector Options }

AccelePort XP and Digi Neo Connector Options

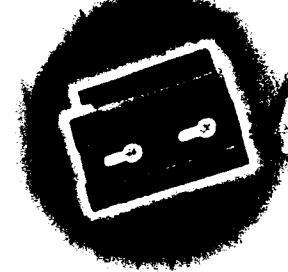
Part Numbers	North America	International
AccelePort XP and Digi Neo Connector Options		
<ul style="list-style-type: none"> Four-port DB-25M DTE fan-out cable Four-port DB-9M DTE fan-out cable Four-port DB-25M DTE connector box Four-port DB-9M DTE connector box Four-port RJ-45 DTE connector box Eight-port DB-25M DTE fan-out cable Eight-port DB-9M DTE fan-out cable Eight-port DB-25M DTE connector box Eight-port DB-9M DTE connector box Eight-port RJ-45 DTE connector box Four-port DB-25F DTE fan-out cable Eight-port DB-25F DTE fan-out cable Four-port DB-9F DTE fan-out cable Eight-port DB-9F DTE fan-out cable HD-68M to DB-78F converter 16-port rock DB-25M DTE cable 16-port rock RJ-45 DTE cable 		
76000522	76000528	76000524
76000528	76000560	76000560
76000524	76000526	76000526
76000560	76000523	76000523
76000526	76000529	76000529
76000523	76000525	76000525
76000529	76000561	76000561
76000525	76000527	76000527
76000561	76000532	76000532
76000527	76000533	76000533
76000532	76000530	76000530
76000533	76000531	76000531
76000530	76000534	76000534
76000531	76000587	76000587
76000534	76000588	76000588
Part Numbers	North America	International

AccelePort Xe and ClassicBoard Connector Options

Part Numbers	North America	International		
Four- and eight-port EIA-232, MALE DTE:				
<ul style="list-style-type: none"> Four- and eight-port EIA-232, MALE DTE Four- and eight-port DB-25M DTE fan-out cable Four- and eight-port DB-9M DTE fan-out cable Four- and eight-port RJ-45 connector box Four- and eight-port RJ-45 connector box Eight-port DB-25M DTE fan-out cable Eight-port DB-9M DTE fan-out cable Eight-port DB-25M DTE connector box Eight-port RJ-45 connector box 				
76000008	76000003	76000030		
76000003	76000038	76000038		
76000030	76000038	76000038		
76000038	76000021	76000021		
76000038	76002042	76002042		
76000031	76000031	76000031		
76000033	76000033	76000033		
76000033	Note: DCE (crossover) cable options also available			
Four and eight-port EIA-422:				
<ul style="list-style-type: none"> Four- and eight-port DB-25M DTE fan-out cable Four- and eight-port DB-9F fan-out cable Eight-port DB-25M DTE fan-out cable Eight-port DB-9F fan-out cable Four-port DB-25M DTE connector box Eight-port DB-9F DTE connector box 				
76000002	76000014	76000014		
76000002	76000178	76000178		
76000014	76000179	76000179		
Part Numbers	North America	International		

Making Device Networking Easy™

DII 00283

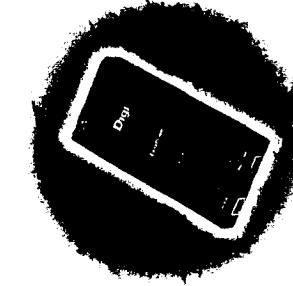


{ Digi One SP Wall Mount Bracket }

Wall mounting brackets

Wall mounting brackets provide easy mounting of select device servers to a wall surface.

Part Numbers	North America	International
Wall mounting brackets		
• Digi TS M, W, H Families (with power cord holder)	78000640	78000640
• Digi One RealPort, Digi One TS & all PortServer TS 2/4	78000641	78000641
• Digi One SP	78000662	78000662

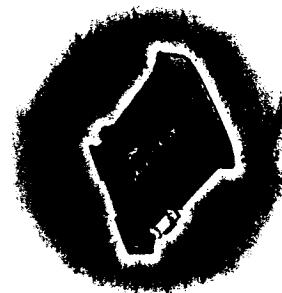


{ Digi EasyPower }

Digi EasyPower
The Digi EasyPower provides one or six IEEE 802.3af Powered Ethernet to data ports. These products can be used for supplying power to Digi One TS, PortServer TS 2/4 MEI and Digi One IAP products.

Part Numbers	North America	International
Digi EasyPower		
• Digi EasyPower 1	78000660	N/A
• Digi EasyPower 6	78000661	N/A

Part Numbers	North America	International
PortServer TS mounting shelf		
• PortServer TS mounting shelf	78000676	78000676
• Digi TS Telco 23" bracket kit	78000689	78000689

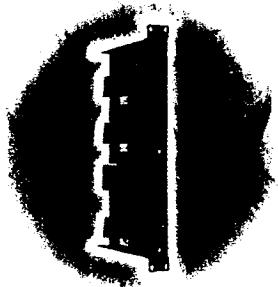


{ Digi One IA Modem }

Digi One IA Modem

The Digi One IA Modem is an EIA-232 serial modem in a DIN Rail form factor.

Part Numbers	North America	International
Digi One IA Modem		
• Digi One IA Modem	70001876	N/A



{ PortServer TS Mounting Shelf }

PortServer TS Mounting Shelf

The PortServer TS Mounting Shelf is made to hold up to two PortServer TS 8 units or up to four Digi TS 2/4 or Digi One TS units. It contains mounting clips for all devices as well as external power supplies all in a convenient 19-inch, 1U rack space.

{ Edgeport/E }

{ PORTS Module }



Part Numbers	North America	International
USB Accessories		
• Edgeport/E USB to Ethernet adapter	301-1050-01	301-1050-01
• USB Upgrade Kit (PCI to USB expansion card)	301-1101-01	301-1101-01
• 1M USB cable - 1 Meter [3.3 feet] A to B USB cable	301-9000-01	301-9000-01
• 2M USB cable - 2 Meter [6.6 feet] A to B USB cable	301-9000-07	301-9000-07
• 3M USB cable - 3 Meter [9.8 feet] A to B USB cable	301-9000-06	301-9000-06
• 4M USB cable - 4 Meter [13.1 feet] A to B USB cable	301-9000-10	301-9000-10
• 5M USB cable - 5 Meter [16.4 feet] A to B USB cable	301-9000-02	301-9000-02
• 5M USB repeater/extender cable	301-9002-01	301-9002-01
• USB to parallel printer cable	301-9006-01	301-9006-01
• Rack Mount Kit {19-inch shelf}	301-9001-01	301-9001-01
• Shelf Mount Bracket {mounts Edgeport/4 to any wall/shelf}	301-9003-01	301-9003-01
• Shelf Mount Bracket {mounts Edgeport/8 to any wall/shelf}	301-9004-01	301-9004-01

PORTS Modules

The Digi PORTS modules provide eight or 16 EIA-232 serial ports for attaching terminals, printers or modems to an AccelePort Xem. Expandability is accomplished by adding up to four external PORTS modules, supporting up to 64 ports per card.

Part Numbers	North America	International
Additional PORTS Modules for AccelePort Xem		
• PORTS/8em RJ-45*	76000122	76000122
• PORTS/8em DB-25*	76000120	76000120
• PORTS/16em RJ-45*	76000074	76000074
• PORTS/16em DB-25*	76000073	76000073
• PORTS/16em EIA-422 DB-25**	76000535	76000535
• PORTS/16em Rack 1U 19-in RJ-45*	76000617	76000617
• PORTS/16em Rack 1U 19-in RJ-45 with power supply	76000704	76000704

*Includes a 16-in (41 cm) daisy-chain cable.

**Includes a 16-in daisy-chain cable and a 120-240V 50/60Hz power supply.

NA version also includes a power cord.

19" Rack Chassis

Part Numbers	North America	International
19" Rack Chassis-2U		
• 19" Rack Chassis-2U	76000611	76000611

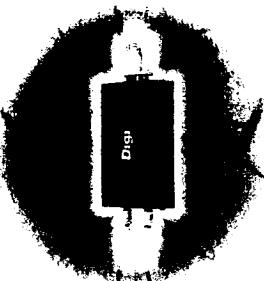
Making Device Networking Easy™

Fiber Optic Connector Kit

If a greater distance is required for the AccelePort C/X and/or a connection is needed which is immune to electrical interface, the Digi Fiber Optic Connector Kit allows a cable connection up to 1.25 miles (2 km) between a host and concentrator with no loss of performance.

Part Numbers	North America	International
Fiber optic connector kit		
• Fl Adapter	76000071	76000107

(Includes two fiber optic conversion boxes, two power supplies and connecting cables for the host card and concentrator.)

**AccelePort Xem Power Supply**

The power supply package is needed when using more than two PORTS modules under the ISA or PCI bus architectures.

Part Numbers	North America	International
AccelePort Xem Power Supply		
• Xem power supply package	76000321	76000321

(120V for North America, 120/240V for International)
www.digi.com

		Page #	AIX	Compaq OpenVMS.	Compaq Tru64 UNIX.	DOS.	HP/UX	Linux	Microsoft Windows 3.x.	Microsoft Windows 95/98/Me	Microsoft Windows NT	Microsoft Windows NT Embedded	Microsoft Windows XP Embedded	Microsoft Windows CE	Novell NetWare	OS/2.	QNX.	SCO OpenServer	SCO UnixWare	Sun Solaris (Intel)	Sun Solaris (SPARC)	Sun Solaris (Sparc)	
Digi One RP/Digi One TS/SP	6-10																						
Digi One TA Family	11																						
Digi Connect EM/Digi Connect ME	17																						
PortServer TS Family	8																						
Edgeport	32																						
AnywhereUSB	34																						
Watchport Sensors	36																						
Wavespeed/LAN	38																						
Wavespeed/S	39																						
Watchport/N	37																						
Rapidport	40																						
Hubport	40																						
AccelePort Xp	44																						
AccelePort C/X	46																						
AccelePort Xem	47																						
AccelePort Xe	45																						
Digi Neo	48																						
ClassicBoard	49																						
AccelePort RAS	51																						

① Drivers supplied by third-party or operating system vendor.

② When powering Digi solutions or devices with EdgeUSB software

③ Microsoft Windows 98/ME only

④ Windows configuration tool, OS-independent after set-up
+ Legacy support only

	Page #	Number of Ports	Port speed (Mbps)	PCI	PCI-X	ISA	USB	USB PlusPower	Powered Ethernet	Wireless Ethernet	Wireless Serial	EIA-232	EIA-422	EIA-485	ML Serial	PPP	SNMP	DPA-Window	Modbus/TCP	Solaris Ready	Microsoft Logo Approved	Bluetooth Logo Approved	Comparible	RADIUS	LAPB	TACACS	PC card slot	Dual Power	HTTP	HTTPS	Auto-Alerts	System Log
Digi iS Family	6	1,2,4	230																													
Digi One XP	9	1	230																													
Digi One SP	10	1	230																													
Digi One IAP	11	1	230																													
Digi Connect ME/EM	9	1,2	230																													
PortServer iS 2/4	9	2,4	230																													
PortServer iS 8/16	8	8,16	230																													
Digi CM	24	8,16, 32,48	115.2																													
Edgeport	28	1,2,4, 8,12,16	230																													
AnywhereUSB	30	5	12,000																													
Wavespeed/LAN	34	N/A	1000-11,000																													
Wavespeed/S	35	1	115.2																													
Rapidport	36	4	56																													
USB Plus Series	37	4	12,000																													
Hubport	40	4,7	12,000																													
AccelePort Xp	40	2,4,8,1 6	921.6																													
AccelePort C/X	42	8 to 128	115.2																													
AccelePort Xem	43	8 to 64	115.2																													
AccelePort Xe	41	2,4,8	115.2																													
Digi Neo	44	4,8	460.8																													
ClassicBoard	45	4,8	460.8																													
AccelePort RAS	47	4,8	56																													

• On select models

Unparalleled Reliability and Warranty Coverage

Digi connectivity solutions have one of the lowest failure rates in the industry. In fact, the failure rate on most products is less than one-half of one percent. In addition, all Digi products are backed by a comprehensive five-year warranty to ensure that you will have a fully functional solution for the life of your computer system. Most products feature multi-strike surge protection to ensure worry-free reliability.

Technical Support Contact Information

Web: <http://support.digi.com>
 FTP: <ftp://digi.com/support/>
 Drivers: www.digi.com/drivers
 Email: info@digi.com
 Fax: 1-952-912-4958

You can purchase with confidence knowing that Digi is here to support you with expert technical support, a strong five-year warranty.

Industry-Leading Customer Support

When you own a Digi solution, technical support is available on-line 24 hours a day, seven days a week, on Digi's Technical Support Web site, <http://support.digi.com>. On this site, you'll find instant access to driver, firmware and diagnostics downloads, documentation on software and hardware, application and troubleshooting guides, as well as FAQs and a comprehensive knowledge base.

You may also submit a case using an on-line Web form. Phone support is also available. Our technical support staff is responsive, knowledgeable and skilled in solving complex technical problems.

Digi International Inc.

11001 Bren Road East
 Minnetonka, MN 55343
 PH: 1-877-912-3444
 1-952-912-3444
 FX: 1-952-912-4952
 E-mail: info@digi.com

Digi International GmbH

Joseph-von-Fraunhofer Str. 23
 D-44227 Dortmund
 Germany
 PH: +49-231-9747-0

Digi International (HK) Limited

Suite 1703-05, 17/F
 K Wah Centre
 191 Java Road
 North Point, Hong Kong
 PH: +852-2833-1008

Sales and Product Information

Additional sales and product information is only moments away. Visit www.digi.com, contact us via e-mail at info@digi.com, or call or fax our Inside Sales Department at the numbers listed below:

North America

Phone: 1-877-912-3444
 1-952-912-3444
 Fax: 1-952-912-4952

International

Phone: +49-231-9747-0
 +49-231-9747-111

E-Mail: info@digi.com
 Web: www.digi.com

Digi International (UK) Ltd

Ashwood House, Almondsbury Business Center Woodlands Bradley Stoke, Bristol BS32 4QH
 PH +44(0)1454-643444

Digi International

2 rue de l'Eglise
 92200 Neuilly sur Seine, France
 PH +33-1-55-61-98-98

Inside Out Networks

7004 Bee Caves Road
 Bldg. 3, Ste. 200
 Austin, TX 78746
 PH: 1-512-306-0600

NetSilicon

411 Waverly Oaks Road #304
 Waltham, MA 02452
 PH: 1-800-243-2333
 1-781-647-1234

Digi International

Room 705-6
 Ruoychai International Building, No. 8
 Yong An Dong Li, Jian Guo Men Wai
 Chao Yang District, Beijing
 PH: +86-10-8528-8130/31/32

Digi International Denmark

Heireskovej, 18C, 1.9.8
 DK-3490 Kvistgaard, Denmark
 PH +45-49-17-70-90



Connectware™

PH +31-20-5207-566

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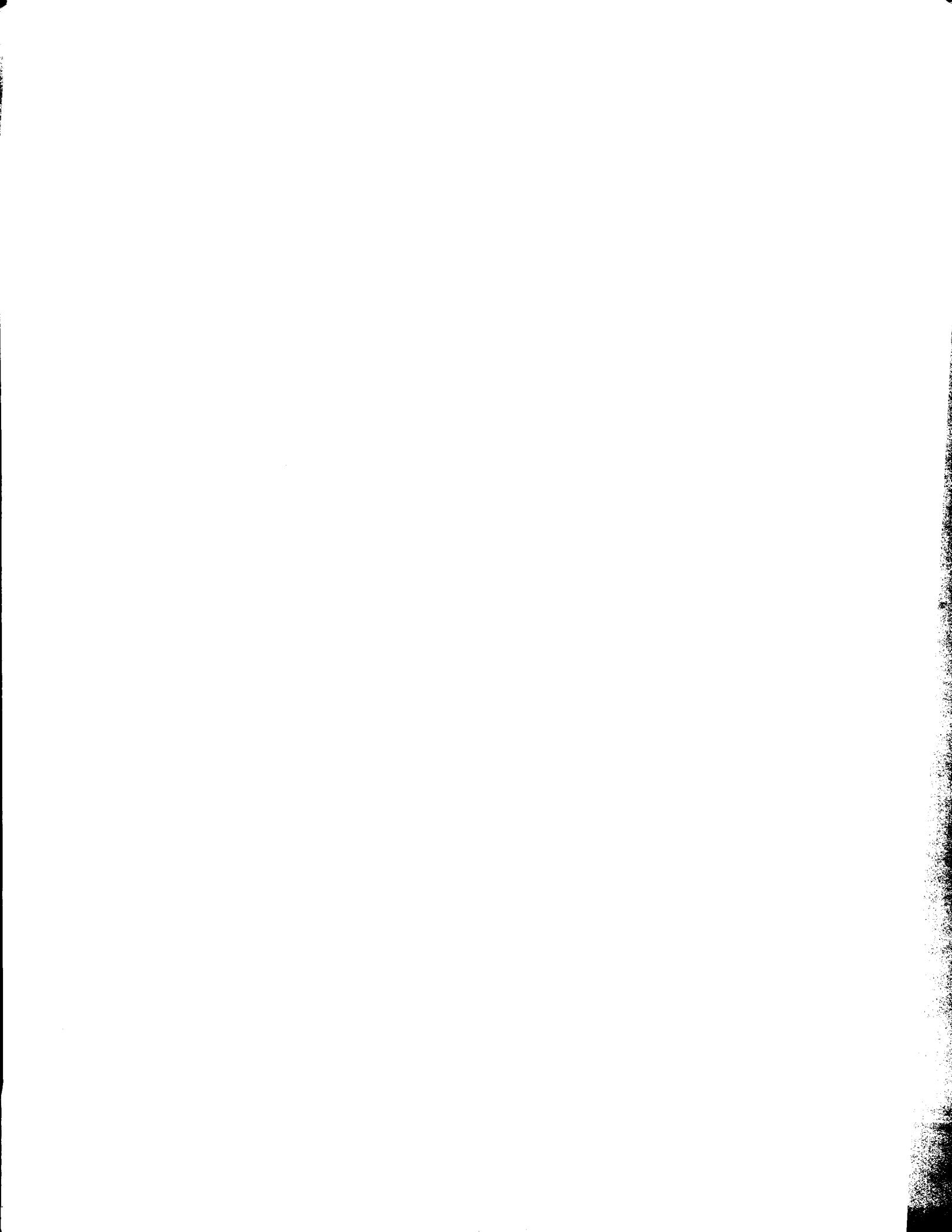
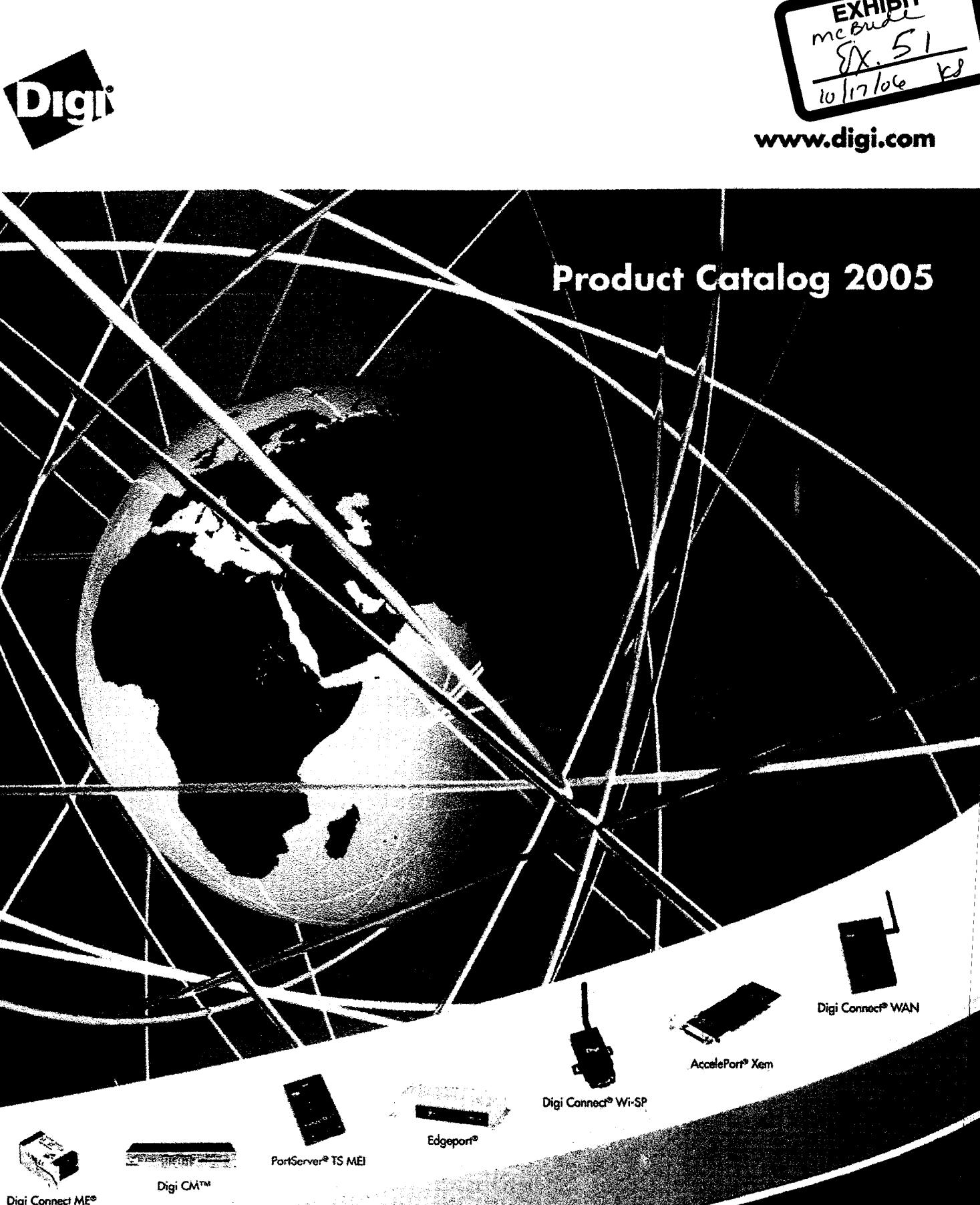




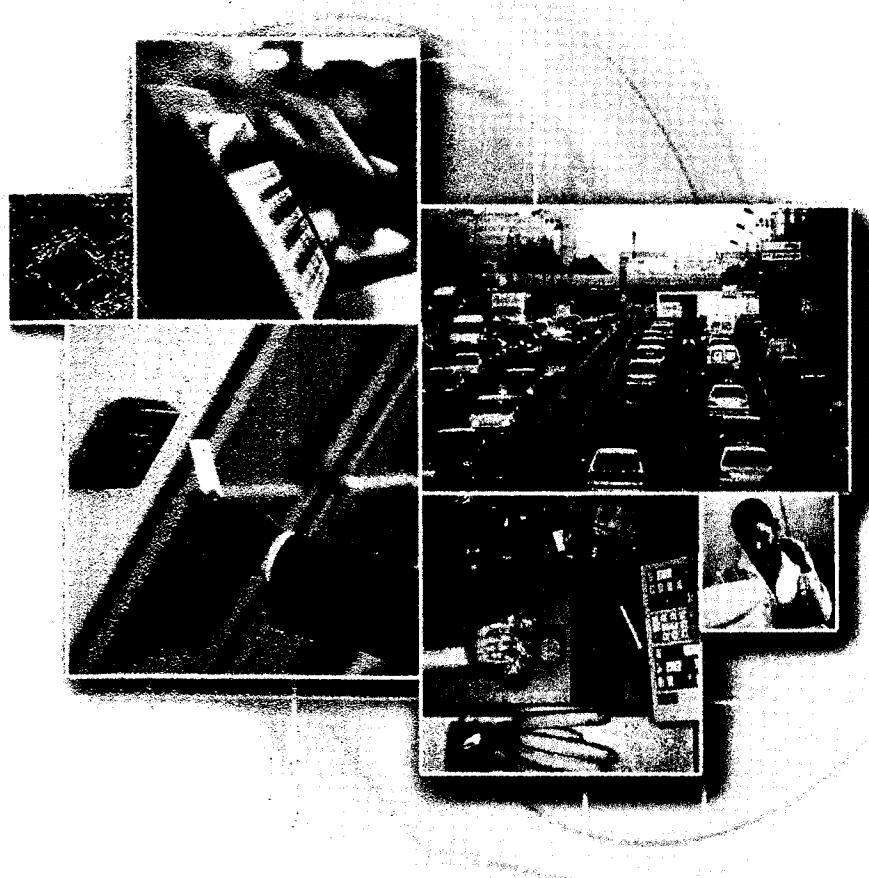
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Product Catalog 2005



DEVICE NETWORKING



Digi International *makes device networking easy*

by developing products and technologies that are cost-effective and easy to use. With over 20 years of experience and over 20 million ports shipped worldwide, Digi is a recognized brand with a reputation for reliable, innovative, quality products and strong technical support.

www.digi.com

+History ::

Digi International was founded in 1985 as DigiBoard. The company went public as Digi International in 1989 and is traded on the NASDAQ National Market under the symbol DGII. Digi employs more than 350 people worldwide. We are headquartered in Minnetonka, Minnesota, a suburb of Minneapolis, with offices worldwide in the U.S., Europe and Asia.

The Makers of the Original
DigiBoard.



+Innovative Solutions ::

Digi International makes device networking easy by developing innovative products and technologies that enable you to connect and manage serial, USB and other electronic devices – locally or remotely, over the network or via the web. Our enterprise solutions, marketed under the Digi®, Inside Out Networks™ and NetSilicon® brands, include wired and wireless embedded modules, serial-to-Ethernet device and terminal servers, secure console servers, multiport serial cards, USB expansion, wireless, cellular, microprocessors and multi-modem adapters.

Digi strives to deliver leading edge technology to meet the demands of today's mission-critical networking environments. We are the only company today able to offer a seamless migration path to a fully integrated system-on-chip solution. Other recently introduced technologies include:

- High-speed cellular gateway
- Wired and wireless interchangeable embedded modules
- Patented RealPort® COM redirector technology
- Patent-pending RealPort® USB technology
- Intelligent console server technology

Our custom integration options, as well as mass configuration, remote monitoring and diagnostics utilities, ensure that even the largest deployments run smoothly. The bottom line is this: we can solve your networking challenges so that you can focus on running your business more efficiently and cost-effectively.

We make networking your devices easy.



Quality and Availability Make a Difference

+ Worldwide Availability and Compatibility ::

Our products are available through a global network of distributors, systems integrators, Value Added Resellers (VARs) and Original Equipment Manufacturers (OEMs). You can purchase Digi solutions from 180 partners in more than 65 countries worldwide – you won't find another hardware provider with greater global reach. Our products hold many international certifications, so you can be assured of their reliability, safety and worldwide compatibility.

Digi has been certified to conform to the ISO 9001 quality management system for over 10 years. We are also friendly to the environment and continually make improvements to ensure we meet the expectations of our customers, employees and the communities in which our products are manufactured and used.

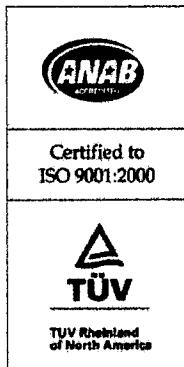
Digi offers GSA pricing (contract number GSA GS-35F-0351J) for U.S. federal government partners and end users. The Digi GSA Online Store makes it easier than ever to procure products for your government projects.

All of this translates to added convenience for you, no matter where your offices are located.



Designed for

Microsoft®
Windows®XP



Certified to
ISO 9001:2000

TÜV
Rheinland
of North America



+First-Rate Technical Support ::

When you own a Digi solution, world-class technical support is just a phone call or click away.

We know how frustrating it can be to call a company's technical support line and not be able to reach a live person. You can always reach a knowledgeable Digi Support Engineer by phone or email Monday through Friday, 7:00 a.m. to 5:30 p.m. (CST) in the U.S., 8:00 a.m. to 5:00 p.m. (CET) in Europe, and 9:00 a.m. to 5:30 p.m. (GSM+8) in Asia. We also offer priority support and enhanced warranty packages for your mission-critical applications that require 24-hour technical support, seven days a week.

We stand by our products with a five-year warranty on all hardware, ensuring that your solution is always functioning to keep your application running smoothly. We also offer annual support agreements tailored to meet the needs of our mission-critical customers and others looking for enhanced support offerings. Customers may choose from three plans:

- Advance Replacement
- 12x5 Priority Support with Advanced Replacement
- 24x7x365 Emergency Assistance with Advanced Replacement

We recognize that our customers often prefer to take a self service approach to technical support, so we have made it easier than ever to find the product information you need on our website. From the searchable Knowledge Base, to the peer-to-peer Support Forum, a wealth of information is at your fingertips.

With our live technical support, five-year warranty, support agreements and comprehensive online tools, it's easy to see why our customers consistently rank us as providing superior support as compared to other companies in our industry.

* For customers outside North America, please check with your reseller for available support options.

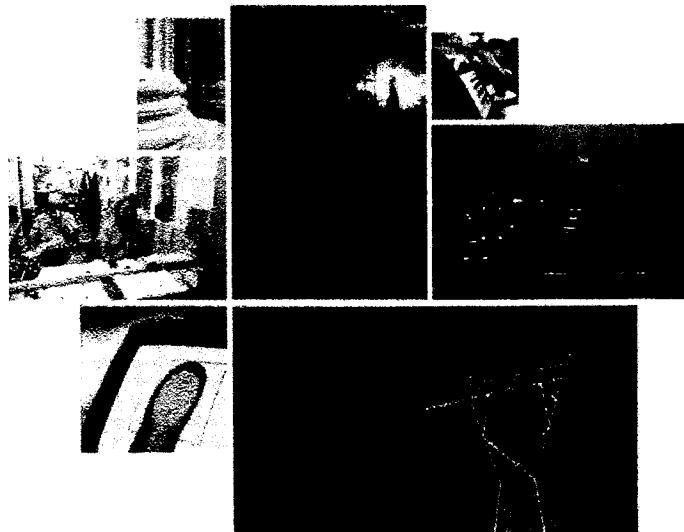




+Our Customers ::

Our willingness to customize hardware, firmware, software and packaging based on specific customer requirements is a key factor in why many Fortune 500 companies choose Digi. From device manufacturers to government agencies to turnkey solution providers, customers around the world rely on Digi for our easy-to-use, high performance connectivity solutions. They also know that Digi is a trusted, recognized brand with over 20 years of experience.

Digi provides critical network connectivity to devices that you encounter in your everyday life. Whether you realize it or not, your daily routine is made easier by Digi technologies. When you use the self checkout system in your local grocery store. When you check into a hotel. When you drink a bottled beverage. When you drive through a traffic light. When you check your baggage at the airport. When you search the web. When you place your order at a fast food restaurant. When you swipe your ID badge to enter an office building. These are just some of the ways Digi makes device networking – and your life – easier.



+*Industry-Specific Focus ::*

By approaching our customers from an industry-specific perspective, we are able to find better solutions to common industry problems. This enables you to improve your business' efficiency, saving valuable time and money that would otherwise be spent on solving critical networking challenges.

Our website has an area dedicated to specific industry segments including *Remote Device Management, Medical/Healthcare, Retail/POS, Building Automation/Security, Traffic Management, Utilities, Industrial Automation and Government*. We offer specific market application guides and newsletters with relevant news and events, application profiles and product spotlights. Of course, as we discover more industries that benefit from our products and technologies we will provide additional applications and information.

See how Digi solutions are used to solve real-world connectivity problems in our Industry-Specific Applications section (page 119).

Just another way Digi is ***Making Device Networking Easy™***.

+Table of Contents

Company Introduction	.....	pg. 2-7
<hr/>		
External Device and Terminal Servers -		
Serial to Ethernet .....	.....	pg. 12-35
<hr/>		
Standard		
• Digi One® SP .....	.....	pg. 18
• Digi One RealPort® .....	.....	pg. 19
• PortServer® TS 2/4 .....	.....	pg. 19
• PortServer® TS 1/2/4 MEI .....	.....	pg. 20
• PortServer® 8/16 Family .....	.....	pg. 21
• EtherLite® .....	.....	pg. 22
<hr/>		
Hardened		
• PortServer® TS H MEI .....	.....	pg. 23
<hr/>		
Wireless		
• PortServer® TS W MEI .....	.....	pg. 24
<hr/>		
Modem		
• PortServer® TS M MEI .....	.....	pg. 25
<hr/>		
Power		
• PortServer® TS P MEI .....	.....	pg. 26
<hr/>		
Customizable		
• Digi Connect® SP .....	.....	pg. 27
• Digi Connect® Wi-SP .....	.....	pg. 28
<hr/>		
Industrial		
• Digi One® IAP .....	.....	pg. 29
• Digi One® IA .....	.....	pg. 30
• Digi One® SP IA .....	.....	pg. 31
• Digi One® IA Modem .....	.....	pg. 32
<hr/>		
Management Tools & Special Features		
• RealPort® .....	.....	pg. 33
• RealPort® with Encryption .....	.....	pg. 33
• Digi Port Authority – Remote .....	.....	pg. 34
• Pass-Through Port .....	.....	pg. 34
• Modem Emulation .....	.....	pg. 35
• FIPS Certification .....	.....	pg. 35

Embedded Solutions -Modules, Development Tools and Microprocessors pg. 36-49

Embedded Modules

- Digi Connect ME® Family pg. 40
- Digi Connect® EM Family pg. 42
- ConnectCore™ 9C pg. 44

Development Tools

- Digi Connect® Integration Kit pg. 45
- Digi Connect® Development Kit pg. 46
- NET+Works® 6.x pg. 47

Microprocessors

- NS7520 pg. 48
- NET+50 pg. 48
- NS9360 pg. 48
- NS9750 pg. 48
- NS9775 pg. 49

Console Management -

Intelligent Console Servers and Power Management pg. 50-57

Secure Console Server

- Digi CM™ pg. 54

Power Management

- Digi Remote Power Manager (Digi RPM) pg. 56

Management Tools and Special Features

- Automatic Device Recognition pg. 57

USB Connectivity -Converters, Hubs, Cameras, Sensors and More pg. 58-79

RealPort® USB (USB Over IP®)

- AnywhereUSB® pg. 65

USB-to-Serial

- Edgeport® pg. 66

USB PlusPower

- USB Plus Series pg. 70

USB Environmental Monitoring

- Watchport®/V2 USB Camera pg. 72
- Watchport® Sensors pg. 73

(USB Continued from last page)

USB Modem Bank

- Rapidport/4® pg. 74

Industrial USB Hubs

- Hubport® pg. 75

802.11b Wireless LAN

- Wavespeed®/LAN pg. 76

Windows NT Software

- EdgeUSB pg. 77

Management Tools and Special Features

- RealPort USB (USB Over IP) pg. 78
- Watchport® Manager pg. 78
- Watchport® Motion Detection Software pg. 79

Wireless -

- Cellular, Bluetooth and Wi-Fi pg. 80-89

Cellular

- Digi Connect® WAN pg. 85
- Digi Connect® Remote Gateway pg. 86

External Bluetooth

- Wavespeed®/S pg. 87

Embedded 802.11b

- Digi Connect® Wi-ME pg. 88
- Digi Connect® Wi-EM pg. 88

External 802.11b

- PortServer TS W MEI pg. 88
- Digi Connect Wi-SP pg. 88
- Wavespeed/LAN pg. 88

Management Tools and Special Features

- Digi Connectware® Manager pg. 89

Multiport Serial Cards -

- PCI/PCI-X/ISA Solutions pg. 90-105

High Performance

- AccelePort® Xp pg. 94
- AccelePort® Xr 920 pg. 96

Expandable

- AccelePort® C/X pg. 98
- AccelePort® Xem pg. 100

(Multiport Serial Cards Continued from last page)

Enhanced

- Digi Neo® pg. 102

Standard

- ClassicBoard™ pg. 104

Multi-Modem Communication Adapters –

- High-Speed Analog Solutions pg. 106-109

Multi-Modem Communication Adapters

- AccelePort RAS® pg. 107

Management Tools/Special Features

- PortAssist® Manager pg. 109

Accessories pg. 110-117

Industry-Specific Applications pg. 118-127

Pinouts pg. 128-132

Glossary pg. 133-135

+ What do you need to do?

- Ethernet-enable virtually any serial device **External Device and Terminal Servers**
- Build future-proof products with a seamless migration path to fully integrated system-on-chip solutions **Embedded Solutions**
- Monitor, control and securely access IT equipment such as servers, routers and switches using industry standard serial ports **Console Management**
- Utilize the USB port of a PC or server to easily gain additional serial, parallel or USB ports for easy I/O expansion **USB**
- Connect serial devices via Bluetooth, cellular or Wi-Fi technology **Wireless**
- Install an asynchronous PCI/PCI-X or ISA card solution with the highest level of performance and upgradeability on the market **Multiport Serial Cards**
- Utilize scalable, high-density solutions for digital/analog remote access, fax and routing **Multi-Modem Communication Adapters**

External Device Servers and Terminal Servers

Serial-to-Ethernet

Our device servers and terminal servers are intelligent and easy-to-use network devices that convert serial data into network data. They consist of all the vital components required to provide full network connectivity to virtually any kind of serial device: a reliable TCP/IP protocol stack, remote management capabilities, and both serial and network interfaces. Our patented RealPort® technology delivers a fully transparent COM or TTY connection without any need for modifications to the existing software or hardware components in your application.

Digi device/terminal server technology combines the inherent benefits of data networking with proven asynchronous connectivity, transforming a previously isolated device with a serial port into a fully network-enabled component. The benefits are clear: immediate access to information, improved flexibility and a significant reduction of operational cost.

With Digi device/terminal servers, you are now able to directly manage, control and access devices through the network, whether it is your organization's intranet or the ubiquitous Internet. Wherever you are, you are connected – anytime. All without the time-consuming hassle and additional cost of separate wiring or the setup of campus modems, simply by taking advantage of your existing network infrastructure.

We offer standard serial-to-Ethernet solutions, as well as specialized models for specific application requirements.

What do you need to do?

- + Add simple, cost-effective network connectivity to a serial device **Standard**
- + Ethernet enable a serial device in extended temperature environments **Hardened/**
- + Integrate an RS-232/422/485 serial device to an 802.11b wireless network **Wireless**
- + Add both IP networking and phone line dial-up connectivity for remote access to serial and Ethernet devices..... **Modem**
- + Gain universal serial to IP network connectivity with versatile powering options including powered Ethernet and powered serial **Power**
- + Utilize an off-the-shelf development platform for easy embedded networking **Customizable**
- + Migrate industrial devices from basic serial-to-Ethernet functionality to advanced industrial protocol conversion..... **Industrial**

Visit our website to download our Solution Guide
www.digi.com/literature

+ External Device and Terminal Servers – Serial-to-Ethernet

Standard

- Digi One® SP pg. 18
- Digi One RealPort® pg. 19
- PortServer® TS 2/4 pg. 19
- PortServer® TS 1/2/4 MEI pg. 20
- PortServer® TS 8/16 Family pg. 21
- EtherLite® pg. 22

Hardened/Extended Temperature

- PortServer® TS H MEI pg. 23

Wireless

- PortServer® TS W MEI pg. 24

Modem

- PortServer® TS M MEI pg. 25

Power

- PortServer® TS P MEI pg. 26

Customizable

- Digi Connect® SP pg. 27
- Digi Connect® Wi-SP pg. 28

Industrial

- Digi Ons® IAP pg. 29
- Digi One® IA pg. 30
- Digi One® SP IA pg. 31
- Digi One® IA Modem pg. 32

Management Tools & Special Features

- RealPort® pg. 33
- RealPort® with Encryption pg. 33
- Digi Port Authority – Remote pg. 34
- Pass-Through Port pg. 34
- Modem Emulation pg. 35
- FIPS Certification pg. 35

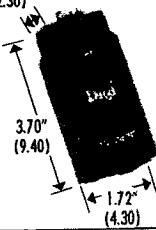
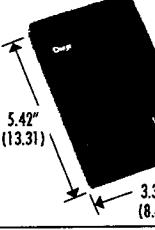
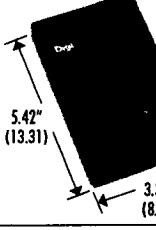
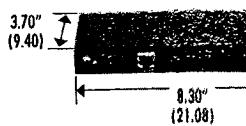
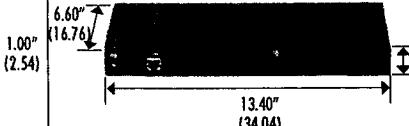
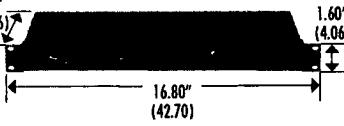
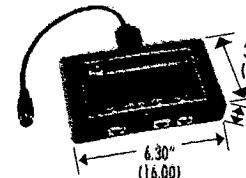
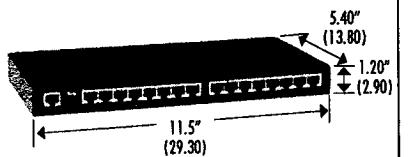
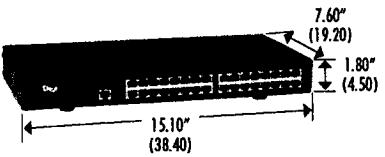
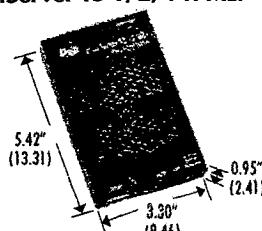
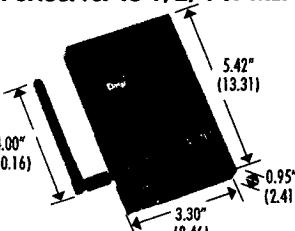
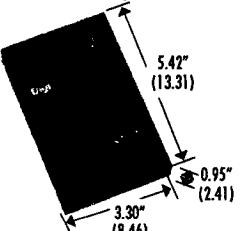
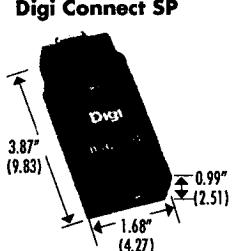
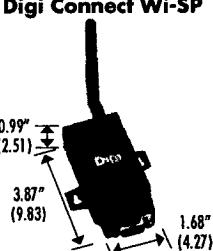
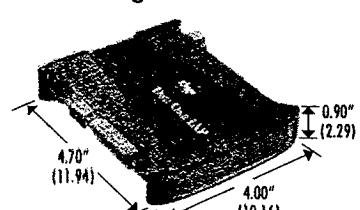
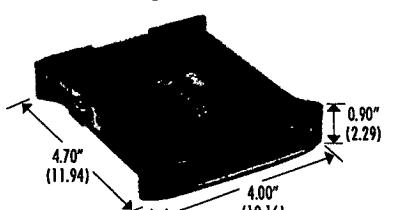
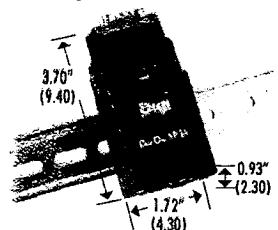
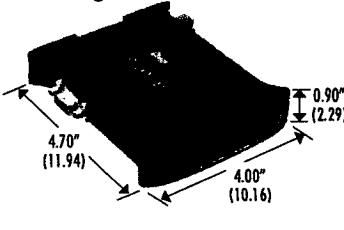
* For cellular device servers, see page 86.

		Standard	Digi One SP PortServer TS	Digi One RealPort, PortServer TS	PortServer TS MEI	EtherLine	Hardened/Extended Temp PortServer TS H MEI	Wireless PortServer TS W MEI	PortServer TS W MEI
External Device / Terminal Server Features Chart	Serial Ports	1	1/2/4/ 8/16	1/2/4/ 8/16	2/8/ 16/32		1/2/4		1/2/4
	Serial Type	RS-232/ 422/485	RS-232	RS-232/ 422/485	RS-232/ 422/485 RS-422/485		RS-232/ 422/485		RS-232/ 422/485
	Serial Connector	DB-9	RJ-45	RJ-45	RJ-45		RJ-45		RJ-45
	10/100Base-T	•	•	•	•		•		•
	Baud	230 Kbps	230 Kbps	230 Kbps	115 Kbps		230 Kbps		230 Kbps
	DHCP, RARP, Static IP, ARP-Ping	•	•	•	• (static IP only)		•		•
	TCP/UDP	•	•	•			•		•
	Modbus/TCP			†			•		•
	Telnet/Reverse Telnet	•	•	•	•		•		•
	HTTP	•	•	•			•		•
	HTTPS		Δ	•			•		•
	SSH v2 Server, SSL/TLS		Δ	•			•		•
	SNMP		•	•			•		•
	Port Buffering		Δ	•			•		•
	Modem Emulation	•		•			•		•
	DIN Rail		• (optional)	• (optional)			• (optional)		• (optional)
	9-30VDC	•		•			•		•
	COM/TTY Driver	RealPort	Δ RealPort with Encryption	RealPort with Encryption	RealPort		RealPort with Encryption		RealPort with Encryption
	Special Features		• 48VDC models Δ				• Extended temp (-35° C to +70° C)		• 802.11b wireless

Δ PortServer TS 8/16 only

† PortServer 1/2/4 MEI only

Modem	PortServer TS M MEI	PortServer TS P MEI	FastSwitchables	Digi Connect SP	Digi Connect Wi-SP	Industrial	Digi One IAP	Digi One IA	Digi One SP IA	Digi One IA Modem
1/3		1/2/4		1	1/2		1	1	1	1
RS-232/ 422/485		RS-232/ 422/485		RS-232/ 422/485	RS-232/ 422/485		RS-232/ 422/485	RS-232/ 422/485	RS-232/ 422/485	RS-232
RJ-45		DB-9		DB-9	DB-9		DB-9 and screw terminals	DB-9 and screw terminals	DB-9	DB-9
•		•		•	•		•	•	•	
230 Kbps		230 Kbps		230 Kbps	230 Kbps		230 Kbps	230 Kbps	230 Kbps	up to 53K
•		•		•	•		•	•	•	
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•		•		•	•		•	•	•	
(optional)	(optional)	(optional)							(via kit)	•
•		•		•	•		•	•	•	•
RealPort with Encryption	RealPort with Encryption	RealPort with Encryption	RealPort	RealPort	RealPort	RealPort with Encryption	RealPort	RealPort	RealPort	
• Internal modem	• Powered serial • Powered Ethernet (802.3af)	• Custom- izable and plug- and-play firmware models	• Custom- izable and plug- and-play firmware models	• Pass- through port • Industrial Ethernet/ serial protocols • Class 1, Div 2	• Class 1, Div 2	• DIN rail and wall mount kit	• Internal modem • Class 1, Div 2			

	 0.93" (2.30) 3.70" (9.40) 1.72" (4.30)	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)
	 3.70" (9.40) 1.00" (2.54) 8.30" (21.08)	 6.60" (16.76) 13.40" (34.04) 1.40" (3.60)	 6.60" (16.76) 16.80" (42.70) 1.60" (4.06)	
	 3.80" (9.50) 1.20" (2.80) 6.30" (16.00)	 5.40" (13.80) 1.20" (2.90) 11.5" (29.30)	 7.60" (19.20) 1.80" (4.50) 15.10" (38.40)	
Serial-to-Ethernet	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	 4.00" (10.16) 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	
	 5.42" (13.31) 3.30" (8.46) 0.95" (2.41)	 3.87" (9.83) 1.68" (4.27) 0.99" (2.51)	 0.99" (2.51) 3.87" (9.83) 1.68" (4.27)	
	 4.70" (11.94) 4.00" (10.16) 0.90" (2.29)	 4.70" (11.94) 4.00" (10.16) 0.90" (2.29)		
	 3.70" (9.40) 1.72" (4.30) 0.93" (2.30)	 4.70" (11.94) 4.00" (10.16) 0.90" (2.29)		

Measurements: inch (cm)

	Windows 2000/XP/ Server 2003	Windows NT 4.0	Windows 98/ME	AIX	HP-UX	Linux	SCO OpenServer	SCO UnixWare	Solaris Intel	Solaris SPARC
Digi One SP	•	•	•	•	•	•	•	•	•	•
Digi One RealPort, PortServer TS	•	•	•	•	•	•	•	•	•	•
PortServer TS MEI	•	•	•	•	•	•	•	•	•	•
EtherLite	•	•	•	•	•	•	•	•	•	•
PortServer TS H MEI	•	•	•	•	•	•	•	•	•	•
PortServer TS W MEI	•	•	•	•	•	•	•	•	•	•
PortServer TS M MEI	•	•	•	•	•	•	•	•	•	•
PortServer TS P MEI	•	•	•	•	•	•	•	•	•	•
Digi Connect SP	•	•	•	•	•	•	•	•	•	•
Digi Connect Wi-SP	•	•	•	•	•	•	•	•	•	•
Digi One IAP	•	•	•	•	•	•	•	•	•	•
Digi One IA	•	•	•	•	•	•	•	•	•	•
Digi One SP IA	•	•	•	•	•	•	•	•	•	•

* Digi One IA Modem is operating system independent.

Digi One® SP :: Standard Device Server

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Overview :: Digi One SP allows any device with a serial port to easily connect to the Ethernet. Its compact design delivers cost-effective performance and capability in one of the smallest form factors available. It is ideal for applications requiring simple and easy-to-use data communications.

+

+ Features ::

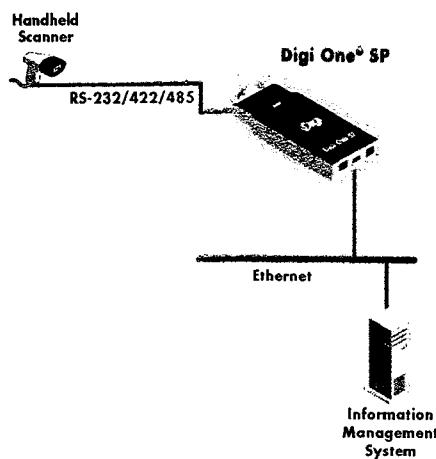
- Easy configuration using installation CD
- Compact form factor – only 3.7 in (9.4 cm) in length
- Patented RealPort® redirector for COM or TTY port control and management
- TCP/UDP Socket Services for broad device connectivity and application use
- Auto-connect the serial device to networked server using raw, Telnet, Rlogin
- Reverse Telnet for easy access of serial devices from network
- Easy configuration through web browser interface (HTTP)
- Single port with switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Modem emulation allows support for devices designed only for modem communications
- 5-year warranty

+

+ Specifications ::

- 10/100Base-T Ethernet support
- 1 switch selectable RS-232/422/485 DB-9M serial port
- Baud rates up to 230 Kbps
- Full modem and hardware flow control
- Modem emulation
- TCP/UDP Socket Services
- UDP Multicast
- Telnet and Reverse Telnet
- DHCP/RARP/ARP-Ping for IP address assignment
- HTTP configuration
- Patented RealPort technology
- RFC 2217 support
- LED status for link and power

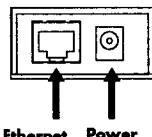
Retail/POS



Digi One SP - Front



Digi One SP - Back



Part Numbers ::

North America International

Model

Digi One SP - 1 port

70001851

70001852

All cables and accessories: pg. 110-111.

Digi One RealPort® & PortServer® TS 2/4 :: Standard Device Servers

Overview :: Digi One RealPort and PortServer TS 2/4 deliver standard serial-to-Ethernet connectivity simply and reliably. They address the growing need to connect individual devices to the network over industry standard Ethernet. The solutions are ideal for applications requiring COM ports or where TCP/UDP Sockets or UDP multicast functionality is required.



+ Features ::

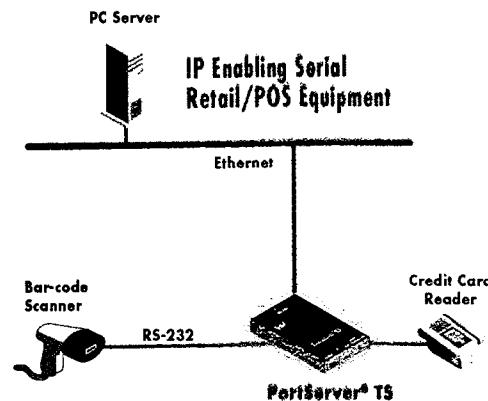
- Easy configuration using installation CD
- Patented RealPort® redirector for COM or TTY port control and management
- TCP/UDP Socket Services for broad device connectivity and application use
- Auto-connect the serial device to networked server using raw, Telnet, Rlogin
- SNMP for easy network management
- Reverse Telnet for easy access of serial devices from network
- Easy configuration through web browser interface (HTTP)
- Switch selectable RS-232 for simple interfacing to any type of serial device
- Modem emulation allows support for devices designed only for modem communications
- 5-year warranty

+

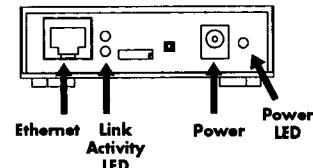
+ Specifications ::

- 10/100Base-T Ethernet support
- 1/2/4 ports
- RS-232 RJ-45 serial
- Baud rates up to 230 Kbps
- Full modem and hardware flow control
- Modem emulation
- TCP/UDP Socket Services
- UDP Multicast
- Telnet and Reverse Telnet
- DHCP/RARP/ARP-Ping for IP address assignment
- SNMP
- HTTP configuration
- Patented RealPort technology for COM and TTY ports
- RFC 2217 support
- LED status for link and power
- DIN rail and mounting options

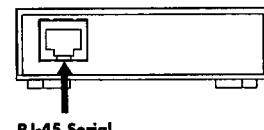
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Digi One RealPort & PortServer TS 2/4 - Front



Digi One RealPort - Back



See page 21 for 8- and 16-port versions.

Part Numbers ::

North America International

Model

Digi One RealPort - 1 port	70001749	70001752
PortServer TS 2 - 2 ports	70001750	70001753
PortServer TS 4 - 4 ports	70001751	70001754

All cables and accessories: pg. 110-111.

PortServer® TS 1/2/4 MEI :: Standard Device Servers

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Overview :: PortServer TS MEI (Multi-Electrical Interface, RS-232/422/485) makes it easy to connect any serial device to your network. Available in one-, two and four-port versions, it combines the inherent benefits of data networking with proven asynchronous connectivity to deliver powerful, yet simple Ethernet connectivity for all your serial devices.

+

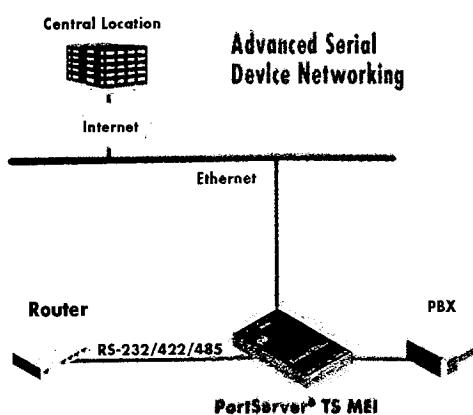
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+ Features ::

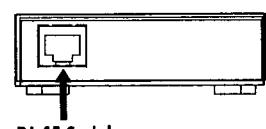
- Switch selectable RS-232/422/485 for simple interfacing to virtually any type of serial device
- Digi's patented RealPort® with Encryption redirector for COM or TTY port control and management
- Management and diagnostic utility for simple and efficient device monitoring and troubleshooting
- Modem emulation for easy integration and replacement of modems
- NIST FIPS-certified (secure AES)
- Secure communication via SSH v2 and SSL/TLS
- Port buffering for data capture
- Easy configuration through web browser interface (HTTP/HTTPS)
- SNMP for easy network management
- PPP for network enabling serial device
- Industry leading low latency
- 5-year warranty

+ Specifications ::

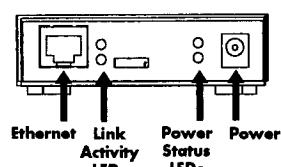
- 10/100Base-T Ethernet support
- 1/2/4 ports
- Switch selectable RS-232/422/485 RJ-45 serial
- Baud rates up to 230 Kbps
- TCP/UDP/Telnet Socket Services
- Patented RealPort with Encryption
- 9-30VDC input
- Modem emulation
- SNMP (read/write)
- PPP
- SSH v2, SSL/TLS
- Port buffering
- Modbus to Modbus/TCP conversion
- HTTP
- DHCP/RARP/ARP-Ping for IP address assignment
- RFC 2217 support
- DIN rail and mounting options



PortServer TS 1 MEI - Back



PortServer TS 1 MEI - Front



Part Numbers ::

North America International

Model

PortServer TS 1 MEI - 1 port	70001805	70001832
PortServer TS 2 MEI - 2 ports	70001806	70001833
PortServer TS 4 MEI - 4 ports	70001807	70001834

All cables and accessories: pg. 110-111.

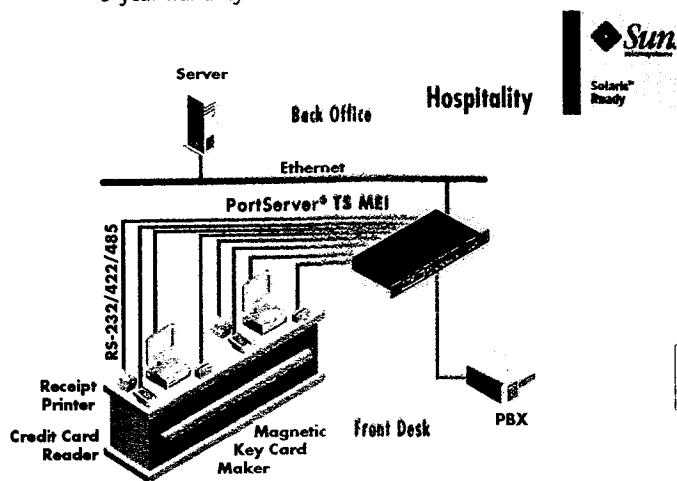
PortServer® TS 8/16 Family :: Terminal Servers

Overview :: The PortServer TS 8/16 family delivers simple, reliable and cost effective RS-232/422/485 serial-to-Ethernet connectivity with a robust feature set for efficient device management. It is ideal for a wide range of applications including property management, retail/POS, travel reservations, industrial automation and data acquisition. The PortServer TS 8/16 family also offers additional value for console management applications that do not require the high-end features of the Digi CM (page 54).



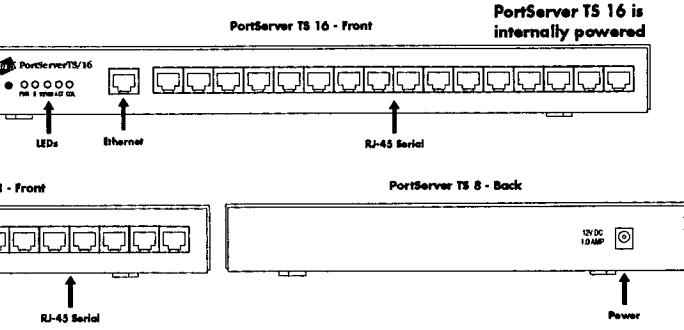
+ Features ::

- Cost-effective serial-to-network connectivity
- SSH v2 ensures encrypted connections
- Patented RealPort® with Encryption redirector provides local serial port functionality
- NIST FIPS-certified (secure AES)
- Ports may be shared between multiple hosts running different operating systems
- Supports SNMP for easy network management
- Supports RADIUS authentication and accounting
- NEBS Level III certified in a system
- 5-year warranty



+ Specifications ::

- 10/100Base-T Ethernet support
- 8/16 ports
- RS-232 and switch selectable RS-232/422/485 models
- 19" rack kit model
- Baud rates up to 230 Kbps
- TCP/UDP/Telnet Socket Services
- Patented RealPort with Encryption
- RFC 2217 support
- 9-30VDC input
- 48VDC power option (RS-232 models only)
- Modem emulation
- SNMP (read/write)
- PPP
- SSH v2, SSL/TLS
- Port buffering
- Modbus to Modbus/TCP conversion
- HTTP
- Digi Port Authority – Remote management diagnostics and auto-discovery tool
- DHCP/RARP/ARP-Ping for IP address assignment
- For a more robust solution to manage server room devices, see Digi CM on page 54.



Part Numbers ::

North America International

Model

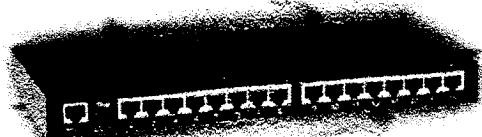
PortServer TS 8 – 8 ports, RS-232	70001734	70001741
PortServer TS 8 MEI – 8 ports, RS-232/422/485	70001979	70001981
PortServer TS 8, 48VDC – 8 ports, RS-232	70001885	70001885
PortServer TS 16 – 16 ports, RS-232	70001733	70001738
PortServer TS 16 MEI – RS-232/422/485	70001978	70001980
PortServer TS 16 Rack – 16 ports, RS-232, 19" rack	70001742	70001743
PortServer TS 16, 48VDC – 16 ports, RS-232	70001747	70001747
PortServer TS 16 Enterprise Rack – 16 ports, RS-232, 19" rack	70001928	70001929

All cables and accessories: pg. 110-111.

EtherLite® :: Standard Terminal Servers

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Overview :: The Digi EtherLite family delivers the functionality of an asynchronous adapter onto the Ethernet network from two to 32 serial ports. EtherLite requires a connection to a computer with a Digi supported operating system and offers easy installation and network efficiency at a low price per port. It is ideal for retail/POS, process control and data collection, as well as console management of servers, routers, hubs, switches, PBXs and other networking devices with console ports.

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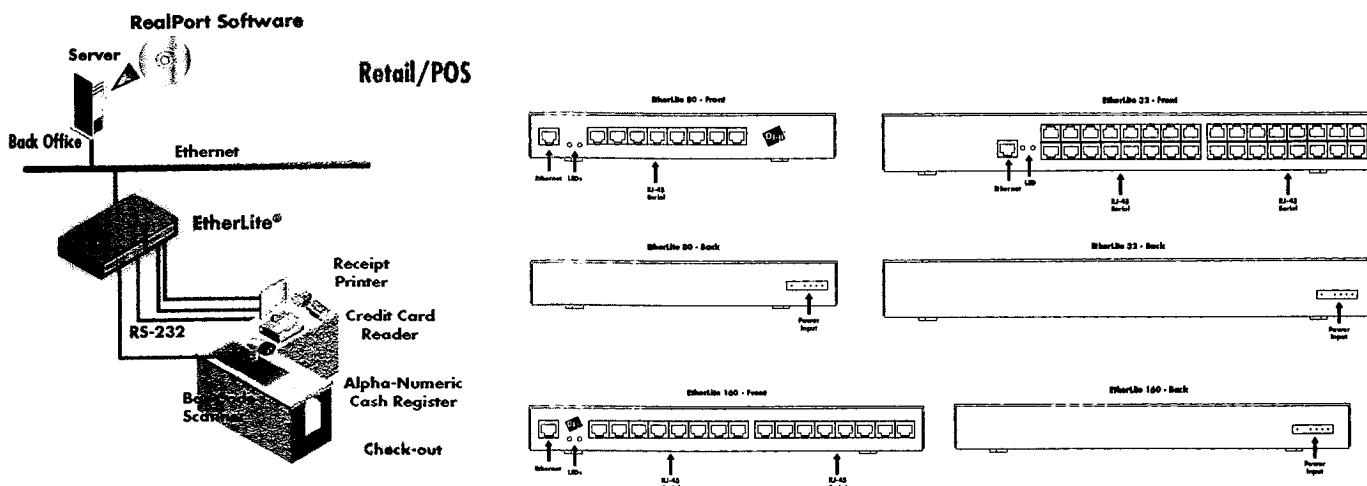
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+ Features ::

- Choose from RS-422, RS-485 and RS-232/422 switch selectable models for added flexibility
- Multiplexes all serial ports into a single TCP/IP session, minimizing Ethernet traffic
- Flash memory for instant field upgrades
- RealPort® drivers for UNIX, Linux and Windows
- Easy to install and configure
- Delivers real serial ports, without Telnet, Rlogin, Reverse Telnet or other complex networking overhead
- No Sun break issues
- 5-year warranty

+ Specifications ::

- 2/8/16/32 asynchronous serial ports
- 2-port RS-422 and RS-485 serial
- 16-port switch selectable RS-232/422 serial
- 2-port RS-485 serial
- Up to 115 Kbps on all ports simultaneously
- Auto-detection of either 10 Mbps or 100 Mbps Ethernet (EtherLite 80, 160 and 162 models)
- Flash memory
- Full RAS support on Windows NT and Windows 2000
- 1U rack-mountable 32-port model
- Sun break-safe
- RFC 2217 support



[] Part Numbers ::

North America International []

Model

EtherLite 2 - 2 ports, RS-232, RJ-45	70001430	70001531
EtherLite 2 - 2 ports, RS-422, RJ-45	70001432	70001532
EtherLite 2 - 2 ports, RS-485, RJ-45	70001683	70001706
EtherLite 160 - 16 ports, RS-232, RJ-45	70001427	70001528
EtherLite 162 - 16 ports, RS-422, RJ-45	70001428	70001529
EtherLite 32 - 32 ports, RS-232, RJ-45	70001429	70001533
EtherLite 80 - 8 ports, RS-232, RJ-45	70001767	70001768

All cables and accessories: pg. 116.

PortServer® TS H MEI :: Hardened/Extended Temp Device Servers

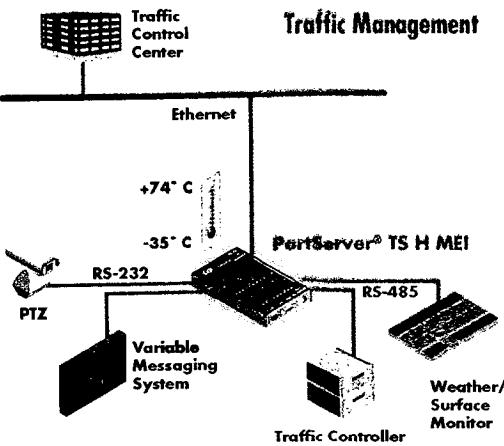
Overview :: PortServer TS H MEI is designed specifically for traffic management, pipelines or any remote application requiring a hardened serial-to-Ethernet solution that can withstand extreme temperatures (-35° C to +70° C).

Available in one-, two-, and four-port versions, PortServer TS H MEI makes it easy to network-enable and remotely manage variable message signs, loop detectors, ramp meters or any RS-232/422/485 serial device.



+ Features ::

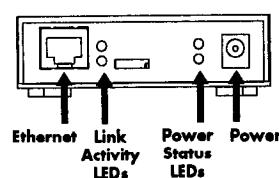
- Robust, hardened model with extended temperature range of -31° F to +158° F (-35° C to +70° C)
- Easily network-enable virtually any serial device
- RS-232/422/485 switch selectable on Port 1, RS-232 on all other ports
- Patented Digi RealPort® with Encryption redirector for COM or TTY port control and management
- Monitoring and diagnostic utility for simple and efficient device monitoring and troubleshooting
- NIST FIPS-certified (secure AES)
- Secure communication via SSH v2 and SSL/TLS
- Port buffering for data capture
- Easy configuration through web browser interface (HTTP)
- Industry leading low latency
- 9-30VDC power with bare-wire "pigtail" for direct connection
- 5-year warranty



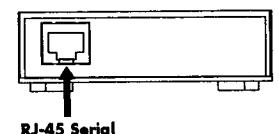
+ Specifications ::

- 10/100Base-T Ethernet support
- 1/2/4 ports
- Switch selectable RS-232/422/485 RJ-45 serial
- Baud rates up to 230 Kbps
- TCP/UDP/Telnet Socket Services
- Patented RealPort with Encryption
- 9-30VDC input
- Modem emulation
- SNMP (read/write)
- PPP
- SSH v2
- Port buffering
- Low latency
- Modbus to Modbus/TCP conversion
- HTTP
- Digi Port Authority – Remote management diagnostics and auto-discovery tool
- DHCP/RARP/ARP-Ping for IP address assignment
- RFC 2217 support
- DIN rail and mounting options

PortServer TS H MEI - Front



PortServer TS H MEI - Back



Part Numbers ::

North America International

Model

PortServer TS 1 H MEI - 1 port	70001917	70001917
PortServer TS 2 H MEI - 2 ports	70001918	70001918
PortServer TS 4 H MEI - 4 ports	70001919	70001919
Extended Temperature Power Supply	76000717	76000717

All cables and accessories: pg. 110-111.

PortServer® TS W MEI :: Wireless Device Servers

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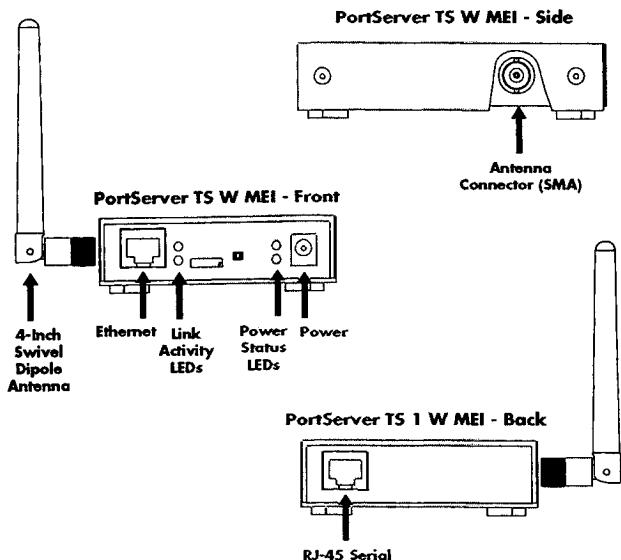
Overview :: PortServer TS W MEI is designed to easily integrate any RS-232/422/485 serial device to an 802.11b wireless Ethernet network. It is ideal for use in environments where wired LANs are not feasible and where serial devices are periodically moved.

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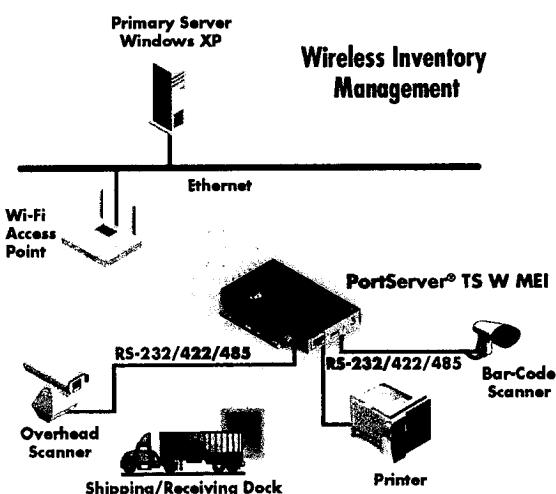
+ Features ::

- Easily connect serial devices to an 802.11b wireless Ethernet network interface
- Patented RealPort® with Encryption redirector for COM or TTY port control and management
- External antenna connector (SMA) can also be used with third party antenna for extended range/performance
- Includes four-inch 50 ohm swivel dipole antenna
- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Monitoring and diagnostics utility for simple and efficient device monitoring and troubleshooting
- NIST FIPS-certified (secure AES)
- Data security via SSH v2, and SSL/TLS
- Wired Equivalent Privacy (WEP)
- Easy configuration through web browser interface (HTTP)
- 5-year warranty



+ Specifications ::

- 10/100Base-T Ethernet support
- 1/2/4 ports
- Switch selectable RS-232/422/485 RJ-45 serial
- Baud rates up to 115.2 Kbps
- 802.11b wireless radio
- WEP supporting 64-bit and 128-bit encryption
- TCP/UDP/Telnet Socket Services
- Patented RealPort with Encryption for COM and TTY ports
- RFC 2217 support
- 9-30VDC input
- Modem emulation
- SNMP (read/write)
- PPP
- SSH v2
- Port buffering
- Low latency
- Modbus to Modbus/TCP conversion
- DIN rail and mounting options



Part Numbers ::

North America International

Model

PortServer TS 1 W MEI - 1 port

70001954

70001955

PortServer TS 2 W MEI - 2 ports

70001956

70001957

PortServer TS 4 W MEI - 4 ports

70001958

70001959

All cables and accessories: pg. 110-111.

PortServer® TS M MEI :: Internal Modem Device Servers

Overview :: PortServer TS M MEI offers Ethernet and RS-232/422/485 serial connections, with the added flexibility of an internal modem. The one- and three- port device servers are ideal for applications requiring both IP networking and standard phone line dial-up connectivity for remote access to serial devices.

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+ Features ::

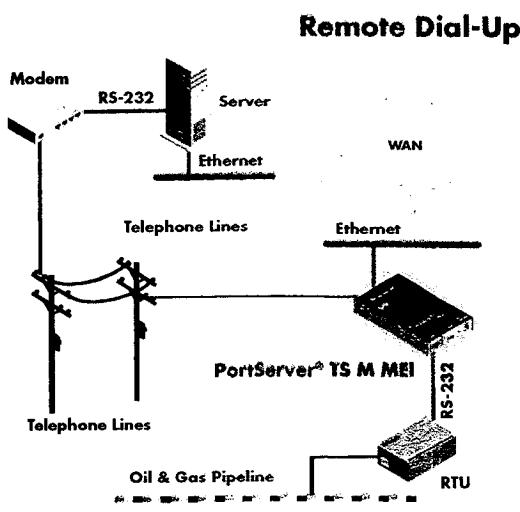
- Easily bridge remote network devices
- Internal V.92 modem
- Static and RIP1 routing
- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Patented Digi RealPort® with Encryption redirector for COM or TTY port control and management
- NIST FIPS-certified (secure AES)
- PPP and SSH for creating secure IP network over serial connection
- Easy IP assignment via DHCP, RARP, ARP-Ping or Digi Port Authority-Remote application (included)
- 5-year warranty

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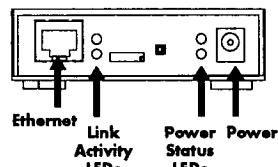
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+ Specifications ::

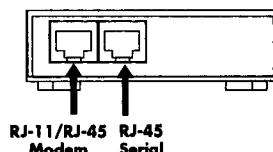
- 10/100Base-T Ethernet support
- 1/3 ports
- Switch selectable RS-232/422/485 RJ-45 serial
- RJ-45 modem serial port connection
- Baud rates up to 230 Kbps (serial ports)
- Internal v.90/v.92 modem
- Full modem and hardware flow control
- DHCP/RARP/ARP-Ping for IP address assignment
- Low latency
- TCP/UDP Socket Services
- UDP Multicast
- Telnet and Reverse Telnet
- Patented RealPort with Encryption technology for COM and TTY ports
- RFC 2217 support
- PPP
- Static routing
- RIP 1
- SSH v2
- Port buffering
- Modbus/TCP protocol conversion
- HTTP
- SNMP v1 (read/write)
- DIN rail and mounting options



PortServer TS 1/3 M MEI - Front



PortServer TS 1 M MEI - Back



Part Numbers ::

North America International

Model

PortServer TS 1 M MEI - 1 port	70001898	70001985
PortServer TS 3 M MEI - 3 ports	70001899	70001986

All cables and accessories: pg. 110-111.

PortServer® TS P MEI :: Power Series Device Servers

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Overview :: The PortServer TS P MEI Power Series is designed for universal, high-performance serial-to-Ethernet connectivity with versatile powering options. It is ideal for RS-232/422/485 applications where traditional power alternatives such as powered Ethernet (802.3af) and powered serial are required. PortServer TS P MEI can be powered by an external device via the serial port (power in) or can power an external device via the serial port (power out) for added flexibility.

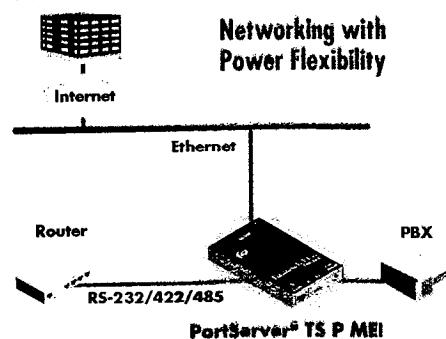
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+ Features ::

- Easily network-enable multiple serial devices
- RS-232/422/485 for simple interfacing to virtually any type of serial device
- Supports powered Ethernet (802.3af) or powered serial for versatile and redundant powering options
- Digi EasyPower™ hubs available to power small concentrations of 802.3af devices
- Patented RealPort® with Encryption redirector for COM or TTY port control and management
- Management and diagnostic utility for simple and efficient device monitoring and troubleshooting
- Modem emulation for easy integration and replacement of modems
- Secure communication via SSH v2
- Port buffering for data capture
- Easy configuration through web browser interface
- SNMP for easy network management
- Industry leading low latency
- 5-year warranty

Central Location



Networking with Power Flexibility

+ Specifications ::

- 10/100Base-T Ethernet support
- 1/2/4 ports
- Switch selectable RS-232/422/485 RJ-45 serial
- Baud rates up to 230 Kbps
- Full modem and hardware flow control
- TCP/UDP Socket Services
- UDP Multicast
- Telnet, SSH v2
- 802.3af powered Ethernet (mid-span)
- SNMP (read/write)
- PPP
- Low latency
- Modbus to Modbus/TCP conversion
- HTTP
- DHCP/RARP/ARP-Ping for IP address assignment
- RFC 2217 support

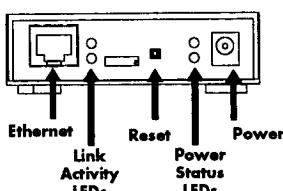
Serial Power Input

- DC input connector, 9-30VDC, 525 mA max
- Serial Port 1, Pin 1 (RI), 9-30VDC, 525 mA max

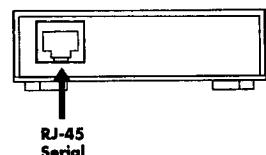
Serial Power Output

- Available on all serial ports
- 1 watt available power with selectable voltage level
- Pin 1 (RI) 5VDC up to 200 mA max
- Pin 9 (DTR) 9VDC up to 100 mA max

PortServer TS P MEI - Front



PortServer TS P MEI - Back



Part Numbers ::

North America International

Model

- PortServer TS 1 P MEI - 1 port
- PortServer TS 2 P MEI - 2 ports
- PortServer TS 4 P MEI - 4 ports
- Digi EasyPower 1 - 1 power and data port
- Digi EasyPower 6 - 6 power and data ports

70001988	70001991
70001989	70001992
70001990	70001993
76000660	76000714
76000661	76000715

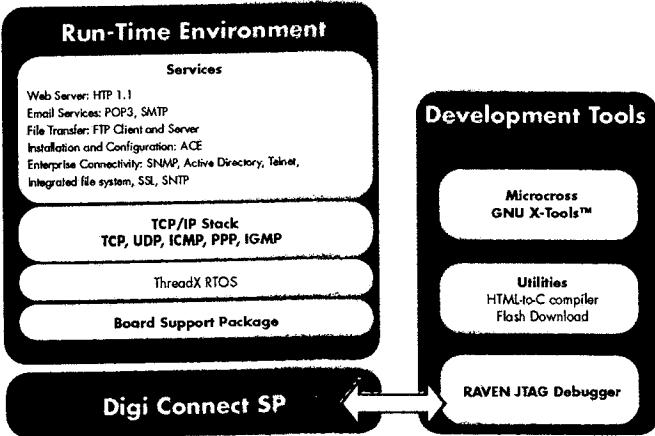
All cables and accessories: pg. 110-111.

Digi Connect[®] SP :: Customizable Device Servers

Overview :: Digi Connect SP is the ideal platform for your custom web- and network-enabled embedded applications. The Digi Connect SP Development Kit significantly reduces traditional design risks, accelerates the overall software development process, and delivers all integrated building blocks and tools to quickly and cost-effectively create flexible and secure web and networking solutions.

+ Features ::

- Compact off-the-shelf hardware platform for custom network applications
- Switch-selectable RS-232/422/485 interface
- Data rates up to 230 Kbps
- Integrated 10/100 Mbps network interface
- Flexible power input of 9-30VDC
- Significantly improves time-to-market by eliminating hardware design process
- Easy-to-use and royalty-free, out-of-the-box development kit solution
- Quick and cost-effective embedded application software development
- Seamless migration path to a fully integrated system-on-chip solution
- 5-year warranty

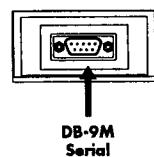


+ Specifications ::

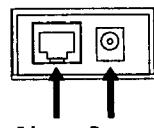
- 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz)
- 4 MB Flash and 16 MB RAM integrated
- Auto-sensing 10/100 Mbit Ethernet interface and network link
- Switch-selectable RS-232/422/485 interface (DB-9M)
 - Serial data rates up to 230 kbps
 - 7, 8 data bits
 - 1, 1.5, 2 stop bits
 - Mark/space/even/odd parity
 - Full signal support with software/hardware flow control
- Development Kit
 - Digi Connect SP w/JTAG
 - Macraigor Raven JTAG debugger
 - NET+Works software components
 - SMICng MIB compiler
 - Micro XML SAX parser
 - Additional utilities
 - HTML-to-C compiler
 - Flash download
- Sample code
- Documentation
 - Digi Connect SP Hardware Reference
 - NET+OS® Programmer's Guide

See website for complete specifications.

Digi Connect SP - Front



Digi Connect SP - Back



Part Numbers ::

North America International

Model

Digi Connect SP - 1 port	DC-SP-01-C	DC-SP-01-C
Digi Connect SP Development Kit (GNU)	DC-SP-01-GN	DC-SP-01-GN

Digi Connect® Wi-SP :: Customizable Device Servers

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+ Features ::

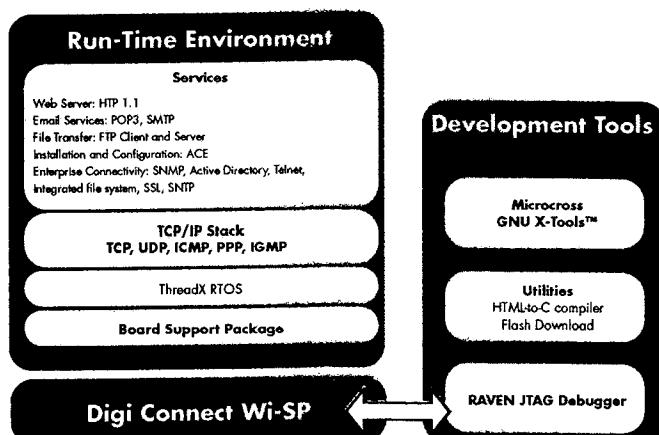
- Compact off-the-shelf wireless device server platform
- Product integration flexibility
 - Plug-and-play firmware with easily customizable web user interface
 - Easy-to-use and royalty-free, out-of-the-box development kit solution available
- Switch-selectable RS-232/422/485 interface
- Serial data rates up to 230 Kbps
- Integrated 802.11b wireless network interface
- Strong WPA 2.0/802.11i encryption and authentication plus basic WEP encryption (64-/128-bit)
- Flexible power input of 9-30VDC
- Enclosure with integrated mounting brackets
- 5-year warranty

Overview :: The Digi Connect Wi-SP is a flexible and secure wireless device server with full support for WPA2/802.11i and extended EAP wireless LAN security. The combination of Digi plug-and-play firmware and the NET+Works® development kit option make it the ideal platform for virtually any kind of network-enabled embedded application. Eliminating hardware design effort, it delivers a versatile device networking solution that is powerful enough to meet current and future performance requirements.

+ Specifications ::

- 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz)
- 4 MB Flash and 16 MB RAM integrated
- 802.11b wireless network interface
- Switch-selectable RS-232/422/485 interface (DB-9M)
 - Data rates up to 230 Kbps
 - 7, 8 data bits
 - 1, 1.5, 2 stop bit
 - Mark/space/even/odd parity
 - Full signal support with software/hardware flow control
- Development Kit
 - Digi Connect Wi-SP w/JTAG
 - Macraigor Raven JTAG debugger
 - NET+Works software components
 - Microcross GNU X-Tools
 - ThreadX RTOS
 - Fusion TCP/IP Stack
 - SMICng MIB Compiler
 - Micro XML SAX Parser
 - Additional utilities
 - HTML-to-C Compiler
 - Flash download
- Sample code
- Documentation
 - Digi Connect Wi-SP Hardware Reference Manual
 - NET+OS® Programmer's Guide and Tutorials

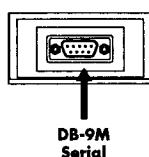
See website for complete specifications.



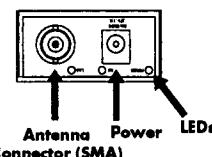
Digi Connect Wi-SP

See page 46 for Development Kit information.

Digi Connect Wi-SP - Front



Digi Connect Wi-SP - Back



[] Part Numbers ::

North America International []

Model

Digi Connect Wi-SP Development Kit (GNU)

DC-WSP-01-GN DC-WSP-01-GN

Models for Custom Applications

Digi Connect Wi-SP-C

DC-WSP-01-C DC-WSP-01-C-WW

Models with Plug-and-Play Firmware

Digi Connect Wi-SP-S

DC-WSP-01-S DC-WSP-01-S-WW

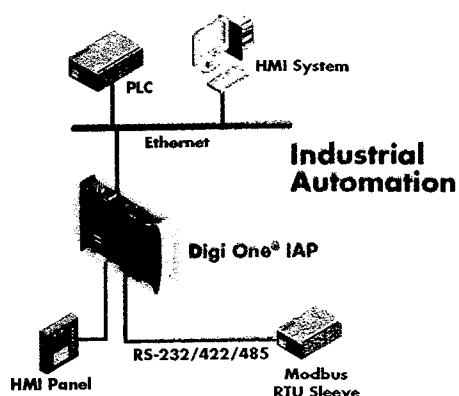
Digi One® IAP :: Industrial Device Servers

Overview :: Digi One IAP is a device server and industrial protocol bridge rolled into one. It is designed for industrial serial-to-Ethernet connectivity, protocol conversion and protocol interoperability, making it an ideal choice for industrial applications requiring specific industry protocol support and where device management and monitoring is critical.



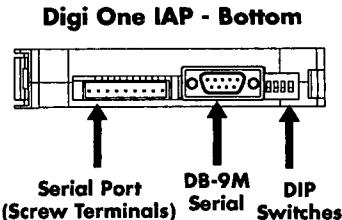
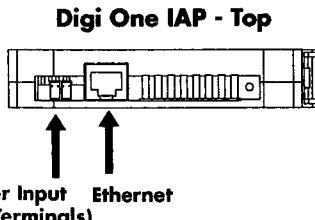
+ Features ::

- Industrial serial-to-Ethernet converter and protocol bridge
- TCP/UDP and RealPort® COM/TTY redirector for remote COM port access – any serial protocol can be moved from device over the network to a PC
- Multi-master/multi-protocol concurrent support for Allen-Bradley and Modbus protocols
- Serial and Ethernet protocol bridging support for Allen-Bradley and Modbus protocols promotes interoperability
- ASCII to protocol translation for Allen-Bradley and Modbus
- Industrial DIN rail mounting
- RS-232/422/485 switch selectable including DB-9 and screw terminal connectors for added flexibility
- Second serial port can be used as a pass-through port
- Class 1, Div 2 rated
- Industry leading low latency
- NIST FIPS-certified (secure AES)
- SSL/TLS for encryption and authentication
- 5-year warranty



+ Specifications ::

- 10/100Base-T Ethernet support
- Switch selectable RS-232/422/485 RJ-45 serial (Port 1)
- DB-9M and screw terminal block serial port
 - Can be enabled as second direct RS-232 port connection to device on screw terminal
- Baud rates up to 230 Kbps
- Protocol bridge support
 - Ethernet protocols: Modbus/TCP, EtherNet/IP, Allen-Bradley Ethernet
 - Serial protocols: ASCII, DF1, Modbus RTU/ASCII
- Multi-master support for above plus Omron serial protocols and user-defined
- TCP/UDP Socket Services
- Support for 64 concurrent socket connections
- Web-based browser configuration
- Patented RealPort technology
- RFC 2217 support
- SNMP (read/write)
- PPP
- DHCP/RARP, ARP-Ping, Static IP for IP address assignment
- Digi Port Authority – Remote management diagnostics and auto-discovery tool
- 35 mm DIN rail mounting
- 9-30VDC input
- 12 diagnostic LEDs
- <6 ms serial over Ethernet latency



Part Numbers ::

North America International

Model

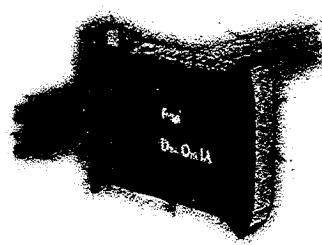
Digi One IAP

70001777

All cables and accessories: pg. 110-111.

Digi One® IA :: Industrial Device Servers

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Overview :: Digi One IA adds serial-to-Ethernet and Modbus-to-Modbus/TCP network connectivity to virtually any industrial device with a serial port in minutes. Designed to meet the specific requirements of the industrial automation market, it offers an easy way to network-enable previously isolated RS-232/422/485 serial devices such as Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), process and quality equipment, motors, drives, bar-code readers and operator displays.

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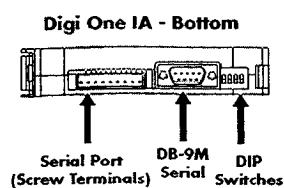
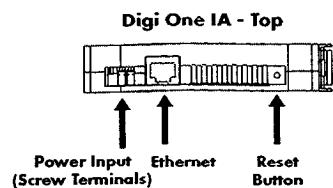
+ Features ::

- Easily Ethernet enable any industrial serial device
- Modbus serial to Modbus/TCP protocol conversion
- Industrial DIN rail mounting for use in space-prohibitive control cabinets
- RS-232/422/485 switch selectable including DB-9 and screw terminal connectors for added flexibility
- Patented Digi RealPort® redirector for COM or TTY port control and management
- TCP/UDP Socket Services for broad device connectivity and application use
- Galvanically isolated (from earth ground)
- Class 1, Div 2 rated
- Industry leading low latency
- Easy configuration through web browser interface (HTTP)
- 5-year warranty

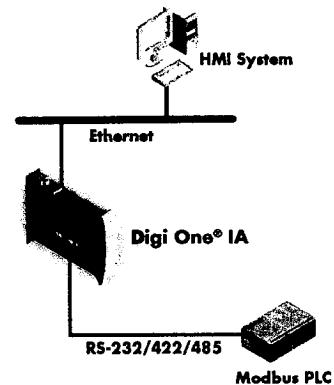
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+ Specifications ::

- 10/100Base-T Ethernet support
- 1 port
- Switch selectable RS-232/422/485
- DB-9M and screw terminal connectors
- 9-30VDC input with screw terminal block power jack
- Patented RealPort technology
- TCP/UDP Socket Services
- UDP
- Telnet, Reverse Telnet and extended Telnet
- HTTP browser configurable
- DHCP/RARP, APR-Ping for IP addressing assignment
- Flash upgradeable firmware
- Baud rates up to 230 Kbps
- Full modem and hardware flow control
- 35 mm DIN rail mounting
- LED status for serial signals, power, Ethernet and diagnostics
- RFC 2217 support



Industrial Automation



Part Numbers ::

North America International

Model

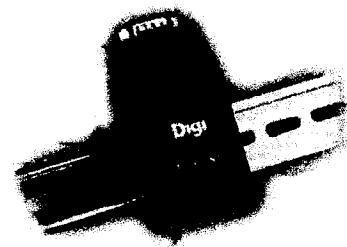
Digi One IA - 1 port

70001862

70001862

Digi One® SP IA :: Industrial Device Servers

Overview :: Digi One SP IA allows any industrial device with a serial port to be easily connected to Ethernet. The compact device server is designed for entry level RS-232/422/485 serial-to-Ethernet connectivity for industrial automation applications.

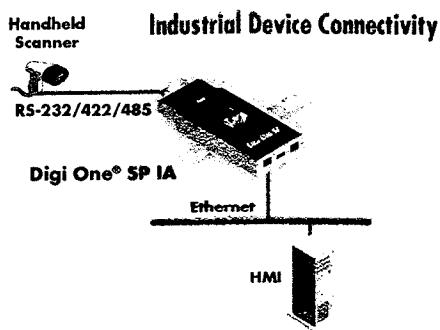


+ Features ::

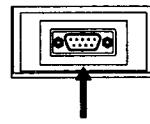
- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Patented Digi RealPort® redirector for COM or TTY port control and management
- TCP/UDP Socket Services for broad device connectivity and application use
- Easy configuration through web browser interface (HTTP)
- Modem emulation allows support for devices designed only for modem communications
- DIN rail and wall mount kits for flexible mounting options
- 9-30VDC power with bare-wire "pigtail" for direct connection included
- RFC 2217 support
- 5-year warranty

+ Specifications ::

- 10/100Base-T Ethernet support
- 1 port (DB-9)
- RS-232/422/485 switch selectable
- Baud rates up to 230 Kbps
- DIN rail and wall mount kit included
- 9-30VDC input
- Bare-wire "pigtail" power connector
- Full modem and hardware flow control
- Modem emulation
- TCP/UDP Socket Services
- UDP Multicast
- Telnet and Reverse Telnet
- DHCP/RARP/ARP-Ping for IP address assignment
- HTTP configuration
- Patented RealPort technology for COM and TTY ports

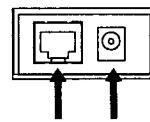


Digi One SP IA - Front



DB-9M Serial

Digi One SP IA - Back



Ethernet Power

Part Numbers ::

North America International

Model

Digi One SP IA - 1 port

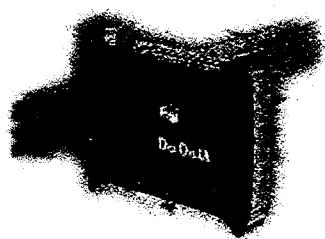
70001999 70002000

All cables and accessories: pg. 110-111.

Digi One® IA Modem :: Industrial Device Servers

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+ Features ::

- V.92 56K serial modem with advanced features
- Industrial DIN rail mounting for use in space-prohibitive control cabinets
- RS-232 9-pin serial for universal connectivity
- 9-30VDC power with screw terminals for flexible power input
- Use in tandem with other Digi device servers for back-up network connection
- Monitor, control or receive knowledge of alarms and events from a remote industrial device
- LEDs for all modem signals
- Rockwell compatible for easy integration into existing application
- 5-year warranty

Overview :: Digi One IA Modem makes it easy to remotely monitor, access and troubleshoot industrial equipment over standard telephone lines. The V.92 56K RS-232 external serial modem is designed specifically to handle the needs of the industrial automation market.

+ Specifications ::

- DIN rail form factor
- RS-232 serial connection
- 9-30VDC with screw terminals @ 0.5mA max
- LED for all modem signals
- Ships with straight-through DB-9F to DB-9M cable
- Advanced modem features
 - Extension pick-up detection
 - Remote hang-up detection

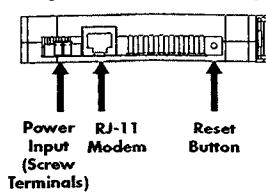
Data Modem

- ITU-T V.92/K56flex (SC56), V.34 (SC56 and SC336), V.32bis, V.32, V.22bis, V.22, V.23 and V.21; Bell 212A and Bell 103
- V.42 LAPM and MNP 2-4 error correction
- V.42bis and MNP 5 data compression
- Configurable auto-answer

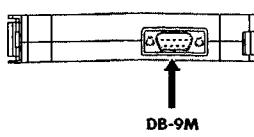
Fax Modem

- ITU-T V.17, V.29, V.27ter and V.21 ch.2

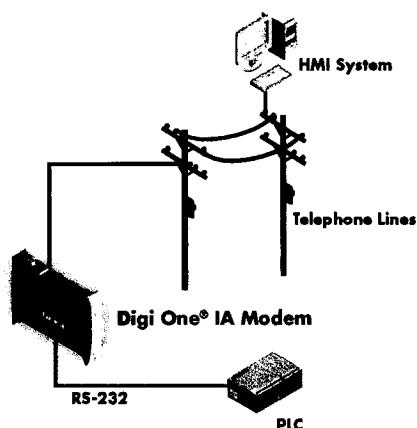
Digi One IA Modem - Top



Digi One IA Modem - Bottom



Remote Site Access



Part Numbers::

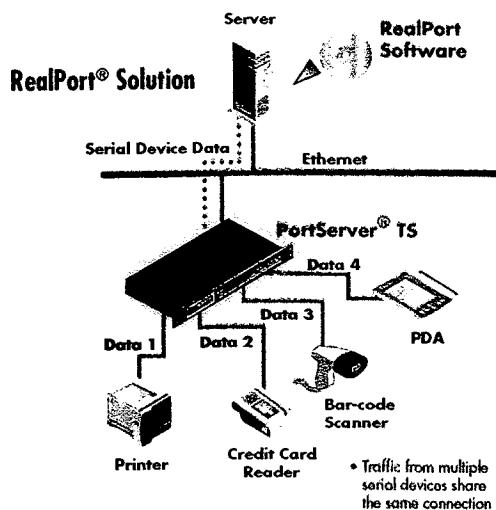
North America International

Model

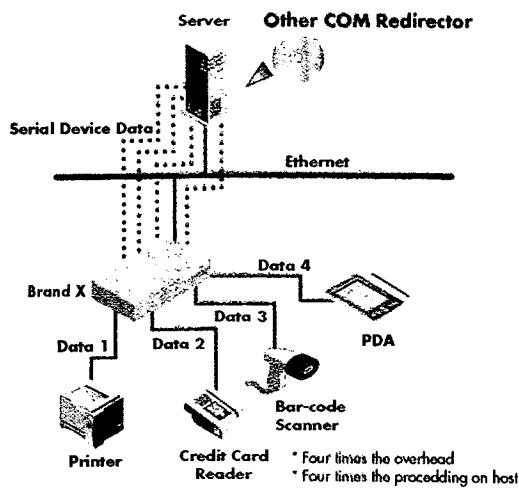
Digi One IA Modem - 1 port

70001876

Management Tools/Special Features :: RealPort®



Other COM Redirector



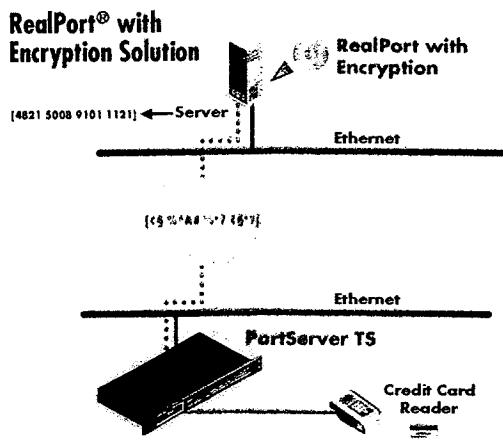
Overview :: Digi's patented RealPort software allows companies to easily network-enable serial devices without spending valuable time and money to re-write existing application programs. Many of today's key business applications were written to talk to serial devices that are directly connected to servers; however, these devices are often located far away from servers or PCs.

Digi's RealPort software leverages the TCP/IP network infrastructure to provide a virtual connection to serial devices. The software is installed directly on the server and allows applications to talk to devices across a network as though the devices were directly attached to the server. In actuality, the devices are connected to a Digi device server or terminal server somewhere on the network.

RealPort software is unique among COM port redirectors. It is the only implementation that allows multiple connections to multiple ports over a single TCP/IP connection. This means RealPort supports the maximum number of remote devices – the number is restricted only by the operating system and server processing power. Other implementations on the market require a separate TCP/IP connection for each serial port, resulting in higher network overhead and more processing demands on the server.

RealPort is a standard feature of all Digi device servers and terminal servers. OS support includes Microsoft Windows Server 2003, XP, 2000, NT, 98, Me; SCO Open Server and UnixWare; Linux; AIX; True 64; Sun Solaris SPARC and Intel; HP-UX; and NCR UNIX MP-RAS.

Management Tools/Special Features :: RealPort® with Encryption



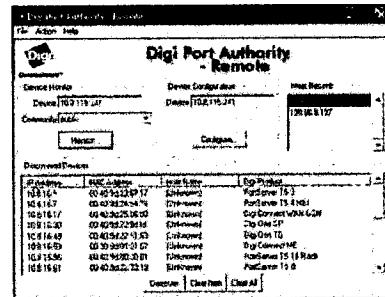
Overview :: Digi takes RealPort technology a step further with patent-pending RealPort with Encryption, offering a secure Ethernet connection between the COM or TTY port and a device server or terminal server. Encryption prevents internal and external snooping of data across the network by encapsulating the TCP/IP packets in a Secure Sockets Layer (SSL) connection and encrypting the data using Advanced Encryption Standard (AES), one of the latest, most efficient security algorithms.

RealPort with Encryption is an optional feature available with Digi One IAP, PortServer TS and Digi Connect device servers and terminal servers.

Management Tools/Special Features :: Port Authority - Remote

Overview :: Digi Port Authority - Remote (DPA - Remote) provides the ability to find Digi devices on your network, assign IP addresses and monitor serial ports, Ethernet and protocols. This tool can be used from a UNIX or Windows based client or server and is designed to troubleshoot flow control, wiring and receive/transmit of data for all serial ports.

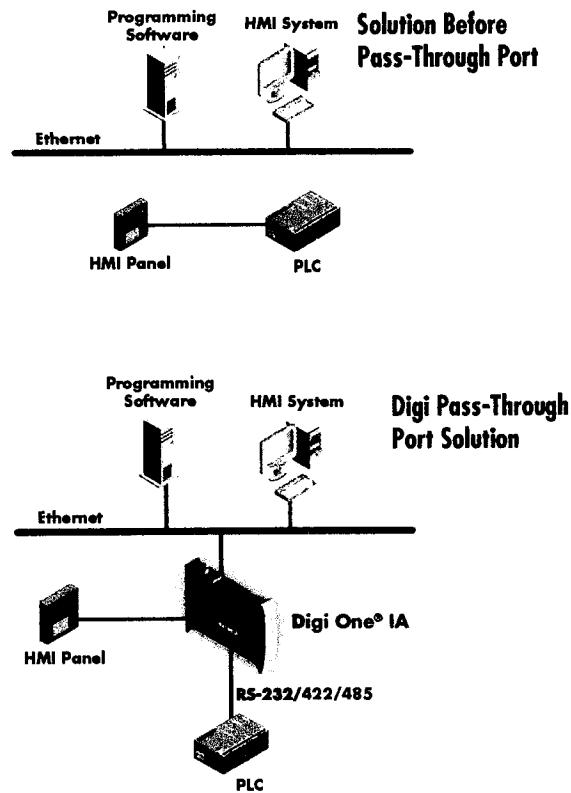
DPA - Remote provides a graphing tool of receive data and buffer space that is refreshed at a user configurable rate. DPA - Remote is standard with the Digi One IA, Digi One IAP, Digi One RealPort, Digi One SP, PortServer TS, PortServer TS MEI, PortServer TS M MEI, PortServer TS H MEI, PortServer TS P MEI and PortServer TS W MEI.



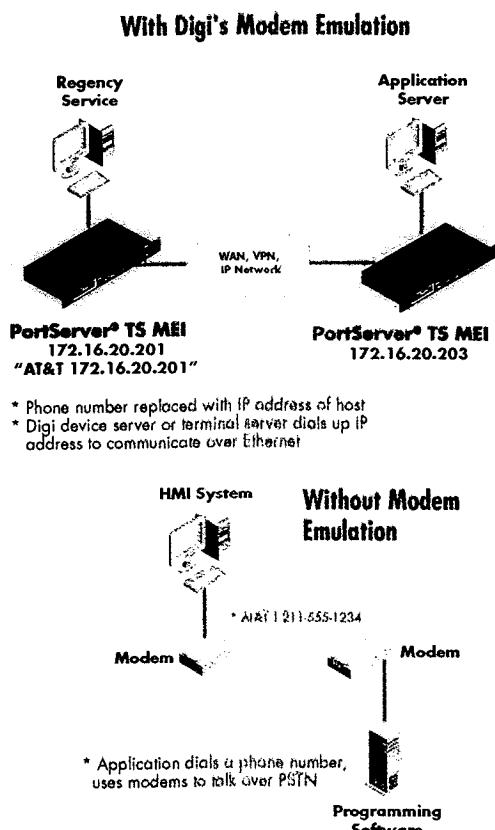
Management Tools/Special Features :: Pass-Through Port

Overview :: Digi One IAP has a second serial port which can optionally be configured as a pass-through port. When a PLC or other serial device is plugged into a device server without pass-through functionality, the serial port on the PLC is unavailable for local use. Now, with the new Digi One IAP pass-through feature, the single serial port on the PLC can be shared. An HMI panel or local PC can be used to program the PLC without interrupting the network masters already connected to the PLC. This pass-through functionality eliminates the need to unplug the serial port from the Digi One IAP to connect a local serial master to the PLC.

Using the pass-through port on the Digi One IAP enables you to perform remote programming from your desk via the network, without losing the ability to locally program the PLC via the serial port. Another key benefit is the ability to connect a PLC to the network without losing a serial port-attached HMI.



Management Tools/Special Features :: Modem Emulation



Overview :: Digi's modem emulation technology enables a networked Digi device server or terminal server to act as a modem to send and receive data over an IP network instead of a PSTN (Public Switched Telephone Network). This means that equipment that was designed only for modem access can now communicate transparently to its corresponding software application across the Ethernet.

The Digi product emulates modem responses to a serial device in the field and seamlessly sends and receives data over an Ethernet network. Embedded, pre-designed devices can treat the Digi device like a modem, but allow it to "dial up" an IP address instead of a phone number. A key benefit is the ability to retain legacy software applications and devices without reprogramming devices in the field. Modem emulation also promotes cost savings by utilizing an IP network instead of a PSTN.

The modem emulation feature is available with Digi One SP, Digi One IA, Digi One IAP, PortServer TS 8/16, PortServer TS MEI, PortServer TS H MEI, PortServer TS M MEI, PortServer TS P MEI, PortServer TS W MEI, Digi Connect SP, Digi Connect Wi-SP, and Digi Connect RG.

Management Tools/Special Features :: FIPS Certification

Product	Firmware Release
Digi Connect ME	82000856_A
Digi Connect Wi-ME	82000977_E
Digi Connect EM	82000904_C
Digi Connect Wi-EM	82000983_E
Digi Connect WAN	82001160_A
Digi Connect RG	82001161_A
Digi One IAP	82000770_D
PortServer TS 1/2/4 MEI	82000747_K
PortServer TS 8/16	82000684_G
PortServer TS 8/16 MEI	82000684_G
PortServer TS H MEI	82000747_K
PortServer TS M MEI	82000747_K
PortServer TS P MEI	82000747_K
PortServer TS W MEI	82000747_K

Overview :: Digi International has received Federal Information Processing Standards (FIPS) certification from the National Institute of Standards and Technology (NIST), providing additional security qualifications to our serial-to-Ethernet product lines. The FIPS certification assures federal government agencies that our connectivity products meet the necessary security measures for secure data communications

The Digi Connect product family shares a common implementation of an AES Encryption Algorithm based on Open SSL v0.9.7b. This algorithm has been FIPS certified on the Digi Connect ME and is common to the products and firmware releases listed (see chart).

The PortServer TS and Digi One product families share a common implementation of an AES Encryption Algorithm based on Open SSL v0.9.6c. This algorithm has been FIPS certified on the PortServer TS 4 MEI and PortServer TS 16, and is common to the products and firmware releases listed (see chart).

Visit www.digi.com/fips for complete details.

Embedded Solutions

Modules, Development Tools and Microprocessors

Proven in over 500 network-enabled product designs worldwide, Digi and NetSilicon enable device intelligence and connectivity in a broad range of industries, including telecommunications, building automation and security, retail/POS, industrial automation, office automation, medical and others.

The promise of Digi and NetSilicon device networking? Fast and easy integration, a future-proof design and uncompromising performance.

Embedded Modules and System-on-Chip Solutions

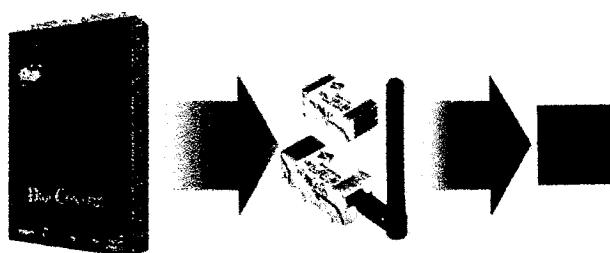
The Digi Connect® family of secure, wired and wireless embedded modules enables original equipment manufacturers to keep pace with ever-evolving networking technology by delivering complete and versatile embedded network connectivity solutions. They are cost-effective and easy to implement in existing and new product designs, while powerful enough to meet your future product needs.

NetSilicon is a leading provider of integrated hardware and software for intelligent, networked devices. A highly integrated "system-on-chip" approach seamlessly combines system-on-silicon and software. We provide a complete development platform for Internet- and Ethernet-connected products. Our products are cost-effective and designed to balance performance and flexibility for your embedded networking applications.

Our high-performance 32-bit NET+ARM microprocessors are ideal for developing your network-enabled products. They are fully supported by the NET+Works® suite of advanced networking development tools and software. The complete and integrated embedded networking package contains a development board and hardware debugger, the royalty-free ThreadX Real-Time Operating System, a TCP/IP stack and networking applications software. Choose either GNU or Green Hills development tools to complete your solution.

Seamless Migration to Total Integration

Built on leading NetSilicon 32-bit NET+ARM technology, Digi Connect embedded modules provide a seamless migration path to a fully integrated system-on-chip solution. They combine true plug-and-play functionality with the freedom and flexibility of complete software customization using the proven NetSilicon NET+Works development platform. Software applications developed with the NET+Works APIs can fully migrate across all Digi Connect hardware platforms, maximizing your initial investment and requiring a single development effort.



+ Embedded Solutions – Modules, Development Tools and Microprocessors

Embedded Modules

- Digi Connect ME™ Family pg. 40
- Digi Connect™ EM Family pg. 42
- ConnectCore™ 9C pg. 44

Development Tools

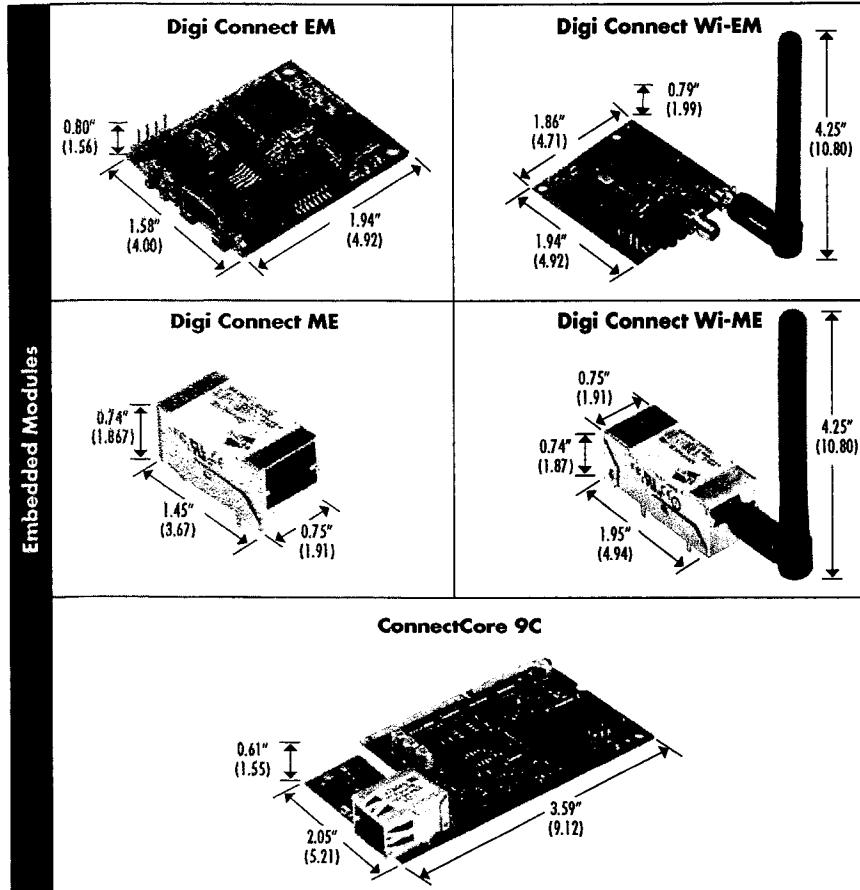
- Digi Connect™ Integration Kit pg. 45
- Digi Connect™ Development Kit pg. 46
- NET+Works® 6.x pg. 47

Microprocessors

- NS7520 pg. 48
- NET+50 pg. 48
- NS9360 pg. 48
- NS9750 pg. 48
- NS9775 pg. 49

Embedded and Customizable Modules Features Chart

	Digi Connect ME	Digi Connect Wi-ME	Digi Connect EM	Digi Connect Wi-ZM	ConnectCore 9C
Type	Co-Processor	Co-Processor	Co-Processor	Co-Processor	Core Module
Processor	NS7520 (ARM7)	NS7520 (ARM7)	NS7520 (ARM7)	NS7520 (ARM7)	NS9360 (ARM9)
Speed	55 MHz	55 MHz	55 MHz	55 MHz	155 MHz
10/100Base-T (Wired)	•		•		•
802.11b (Wireless)		•		•	
Serial Ports	1	1	2	2	4
Serial Connector	TTL	TTL	TTL	TTL	TTL
Max. Data Rate	230 Kbps	230 Kbps	230 Kbps	230 Kbps	921 Kbps
GPIO	5	5	9	9	55
Other Interfaces			SPI	SPI	SPI, I ² C, USB, IEEE 1284
Flash Memory	2 MB	4 MB	4 MB	4 MB	4 MB
RAM	8 MB	8 MB	8 MB	8 MB	16 MB
Power Requirements	0.825 w (3.3VDC @ 250 mA typical)	1.25 w (3.3VDC @ 370 mA typical)	0.825 w (3.3VDC @ 250 mA typical)	1.25 w (3.3VDC @ 370 mA typical)	3.3V @ 750 mA
Customizable Development Kit	• (- C models)	• (- C models)	• (- C models)	• (- C models)	•
Plug-and-Play Firmware	• (- S models)	• (- S models)	• (- S models)	• (- S models)	
Special Features	<ul style="list-style-type: none"> • 802.3af "mid-span" power pass-through • NIST-certified AES encryption (SSL/TLS) 	<ul style="list-style-type: none"> • Antenna options available • FCC module approval • WEP encryption (64/128-bit) • 802.11i (WPA/WPA2) 	<ul style="list-style-type: none"> • Hardware population options available • 802.3af "mid-span" power pass-through • NIST-certified AES encryption (SSL/TLS) 	<ul style="list-style-type: none"> • Dual diversity antenna • Antenna options available • FCC module approval • WEP encryption (64/128-bit) • 802.11i (WPA/WPA2) 	<ul style="list-style-type: none"> • SO-DIMM design • 802.3af power-pass-through (end- and mid-span) • Population options available (speed grade, memory, connectors)



Measurements:
inch
(cm)

Seamless migration to total integration

**Future proof protection –
software development migrates seamlessly
across all Digi hardware.**

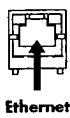
Digi Connect ME® Family :: Wired & Wireless Embedded Modules

Overview :: Based on a unique common platform design approach, the Digi Connect ME and Digi Connect® Wi-ME embedded modules offer pin-compatible “drop-in” integration. This allows you to build future-proof products based on a single design supporting both wired 10/100Base-T and 802.11b wireless Ethernet connectivity. These connector-style modules include all the functionality you need in a single component solution to cost-effectively and easily implement in existing and new product designs, while powerful enough to meet your future product performance needs.

+ Features ::

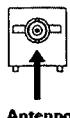
- Interchangeable and pin-compatible single-component solution based on 32-bit NET+ARM processor
- One high-speed TTL serial interface
- Wireless Ethernet network interface
 - 802.11b network interface with data rates up to 11 Mbps
 - 802.11i (WPA/WPA2) and WEP encryption
 - FCC module approval improves time-to-market
- Wired Ethernet network interface
 - Auto-sensing 10/100Base-T network interface
 - Innovative power pass-through option for network powered products
- Low power consumption and industrial temperature range
- Strong SSL/TLS encryption for security sensitive environments (NIST FIPS-certified)
- Plug-and-play Integration Kit models eliminate embedded software development effort (Digi Connect ME-S, Digi Connect Wi-ME-S)
- Development Kit models built on easy-to-use and royalty-free NET+Works® platform for custom embedded application development (Digi Connect ME-C, Digi Connect Wi-ME-C)
- Path to full compliance with the European Union's Restriction of Hazardous Substances (RoHS) directive
- Class B certified
- 5-year warranty

Digi Connect ME - Back



Ethernet

Digi Connect Wi-ME - Front



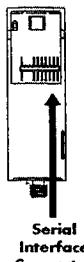
Antenna

Digi Connect ME - Bottom

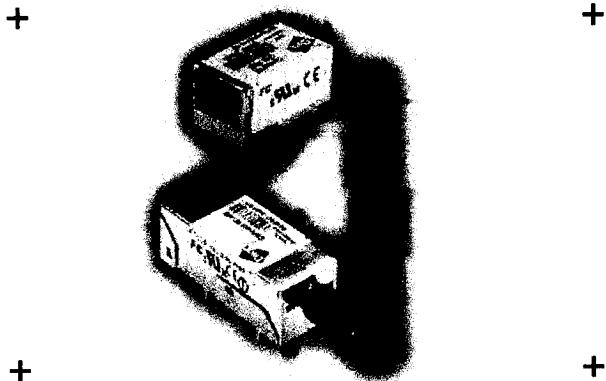


Serial
Interface
Connector

Digi Connect Wi-ME - Bottom



Serial
Interface
Connector



+ Specifications ::

Hardware

- 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55 MHz)
- On-board memory: 2/4 MB (wired) or 4 MB (wireless)
Flash and 8 MB RAM
- On-board power supervisor
- 1 high-speed TTL serial interface
 - Throughput up to 230 Kbps
 - Full signal for TXD, RXD, RTS, CTS, DTR, DSR and DCD
 - Hardware and software flow control
- 5 shared General Purpose Input/Output (GPIO) ports
- LEDs for link integrity, diagnostic, serial activity and network activity
- Operating temperature
 - Digi Connect ME: -40° C to +85° C (-40° F to +185° F)
 - Digi Connect Wi-ME: -20° C to +85° C (-4° F to +185° F)
- 2.4 MHz RP-SMA dipole antenna included (Digi Connect Wi-ME)
- Wave-solderable design (no clean flux process)

Network Interface

Digi Connect ME

- Standard: IEEE 802.3
- Physical Layer 10/100Base-T
- Data rate: 10/100Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- Connector RJ-45

Digi Connect Wi-ME

- Standard: IEEE 802.11 b
- Frequency: 2.4 GHz
- Data rate: Up to 11 Mbps with automatic fallback
- Modulation: CCK (11/5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
- Transmit power: 16 dBm typical
- Receive sensitivity: -82 dBm @11 Mbps
- Antenna connector: 1 x RP-SMA

See website for complete specifications.
See page 117 for antennas.

Digi Connect ME® Family :: Wired & Wireless Embedded Modules

Power and Device Interface Connector Pin Assignments

PIN #	Signal
1	VETH+
2	VETH-
3-6	—
7	RXD
8	TXD
9	RTS/GPIO 4
10	DTR/GPIO 5
11	CTS/GPIO 2
12	DSR/GPIO 3
13	DCD/GPIO 1
14	RESET
15	+3.3V
16	GND
17-19	—
20	/INIT

:: Product

Digi Connect ME
Digi Connect Wi-ME

Part Numbers::

Worldwide

Model

Digi Connect ME Development Kit*	DC-ME-01T-GN
Digi Connect ME Development Kit w/JTAG and Plug-and-Play Firmware**	DC-ME-01T-S
Digi Connect ME-S (single-unit pack)	DC-ME-01T-C
Digi Connect Wi-ME System Applications	DC-WME-01T-S
Digi Connect ME-C (single-unit pack)	DC-WME-01T-C
Digi Connect Wi-ME Development Kit w/JTAG and Plug-and-Play Firmware	DC-WME-01T-GN
Digi Connect Wi-ME-S (single-unit pack with antenna)	DC-WME-01T-S
Digi Connect Wi-ME-C (single-unit pack with antenna)	DC-WME-01T-C

* Includes module w/plug-and-play firmware, development board, documentation, integration CD, cables and power supply.

** Includes module w/JTAG interface, development board, hardware debugger, NET+Works platform CD, documentation, cables and power supplies. Module installation and setup support. Additional support options available.

Single-unit and bulk packs include modules only. Please order Integration Kits/Development Kits for product evaluation and development purposes.

Modules for custom applications are designed for deployment of embedded software solutions developed using the NET+Works Development Kits.

Development Kits without hardware debugger also available. Contact us for details.

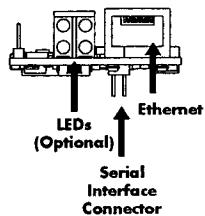
Digi Connect® EM Family :: Wired and Wireless Embedded Modules

Overview :: Digi Connect EM and Digi Connect Wi-EM are pin-compatible, interchangeable embedded modules that deliver cost-effective and easy-to-implement wired and wireless Ethernet network connectivity. These board-mount modules feature pin-headers for a variety of connector options and an SPI port, as well as a lower profile, higher data rate and more Flash memory than the Digi Connect ME family. Easily web- and network-enable any electronic device with these flexible embedded modules.

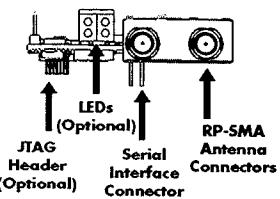
+ Features ::

- Interchangeable and pin-compatible single-component solution based on 32-bit NET+ARM processor
- Two high-speed TTL serial interfaces with up to 230 Kbps throughput
- High-speed SPI port
- Wireless Ethernet network interface
 - 802.11b network interface with data rates up to 11 Mbps
 - 802.11i (WPA/WPA2) and WEP encryption
 - Dual diversity antenna setup for maximum signal strength
 - FCC module approval improves time-to-market
- 10/100Base-T wired Ethernet network interface
- Population options for additional design flexibility
- Low power consumption and industrial temperature range
- Strong SSL/TLS encryption for security sensitive environments (NIST FIPS-certified)
- Plug-and-play Integration Kit models eliminate embedded software development effort (Digi Connect EM-S, Digi Connect Wi-EM-S)
- Development Kit models built on easy-to-use and royalty-free NET+Works® platform for custom application development (Digi Connect EM-C, Digi Connect Wi-EM-C)
- Class B certified
- 5-year warranty

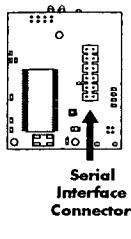
Digi Connect EM



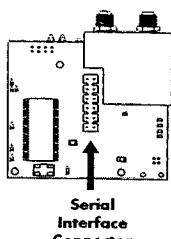
Digi Connect Wi-EM



Digi Connect EM - Bottom



Digi Connect Wi-EM - Bottom



+ Specifications ::

Hardware

- 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55 MHz)
- On-board memory: 4 MB Flash and 8 MB RAM
- On-board power supervisor
- 2 high-speed TTL serial interfaces
 - Throughput up to 230 Kbps
 - Full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD on port 1
 - TXD/RXD signals support on port 2
 - Hardware and software flow control
- SPI port option
- 9 shared General Purpose Input/Output (GPIO) ports
- Wave-solderable design (no clean flux process)
- LEDs for link integrity, diagnostic, serial activity and network activity
- Operating temperature
 - Digi Connect EM: -40° C to +85° C (-40° F to +185° F)
 - Digi Connect Wi-EM: -20° C to +85° C (-4° F to +185° F)
- 2.4 MHz RP-SMA dipole antenna included (Digi Connect Wi-EM)

Network Interface

Digi Connect EM

- Standard: IEEE 802.3
- Physical Layer 10/100Base-T
- Data rate: 10/100Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- Connector RJ-45 or pin-header

Digi Connect Wi-EM

- Standard: IEEE 802.11 b
- Frequency: 2.4 GHz
- Data rate: Up to 11 Mbps with automatic fallback
- Modulation: CCK (11/5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
- Transmit power: 16 dBm typical
- Receive sensitivity: -82 dBm @11 Mbps
- Antenna connector: 2 x RP-SMA

See website for complete specifications.

See page 117 for antennas.

Digi Connect® EM Family :: Wired and Wireless Embedded Modules

Power and Serial Interface Connector Pin Assignments

PIN #	Signal
1	+3.3V
2	GND
3	RXD/GPIO-7
4	TXD/GPIO-6
5	RTS/GPIO-4/SPI_CLK
6	DTR/GPIO-5
7	CTS/GPIO-2
8	DCD/GPIO-1/SPI_EN
9	DSR/GPIO-3
10	/RST
11	RXD/GPIO-9
12	TXD/GPIO-8

:: Product

Digi Connect EM
Digi Connect Wi-EM

Part Numbers ::

Worldwide

Model	
All Development Integration Kits*	
Digi Connect EM Development Kit (GNU) **	DC-EM-02T-GN
All Plug-and-Play Firmware	
Digi Connect EM-S w/LED Array and RJ-45 Connector (single-unit pack)	DC-EM-02T-S
Custom Applications	
Digi Connect EM-C w/LED Array and RJ-45 Connector (single-unit pack)	DC-EM-02T-C
Modules with Plug-and-Play Firmware	
Digi Connect Wi-EM-S w/LED Array (single-unit pack)	DC-WEM-02T-NC
Modules for Custom Applications	
Digi Connect Wi-EM-C w/Pin Headers (single-unit pack w/o antennas)	DC-WEM-02T-NC

See page 117 for accessories including antennas and extension cords. Bulk packs and customer-specific packaging for individual units available. Population options available. Please visit our website for a complete list of part numbers, including Development Kits without hardware debugger.

* Includes module w/plug-and-play firmware, development board, documentation, integration CD, cables and power supply.

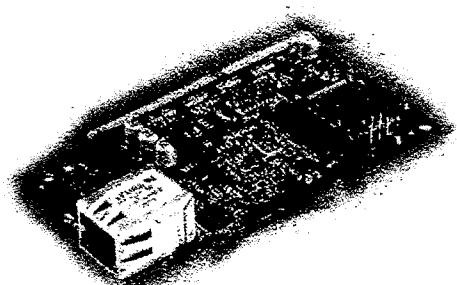
** Includes module w/JTAG interface, development board, hardware debugger, NET+Works platform CD, documentation, cables and power supplies. Module installation and setup support. Additional support options available.

Single-unit and bulk packs include modules only. Please order Integration Kits/Development Kits for product evaluation and development purposes.

Modules for custom applications are designed for deployment of embedded software solutions developed using the NET+Works Development Kits.

ConnectCore™ 9C :: Core Module

+



+

+

+

+ Features ::

- Powerful ARM9 core module provides core processing and network connectivity in a single solution
- Based on powerful 32-bit NS9360 processor
 - ARM926EJ-S RISC core with DSP/Jazelle enhancements
- Compact SO-DIMM design
- Low power consumption
- Sleep mode power management
- Industrial operating temperature
- 4 MB Flash, 16 MB RAM integrated
- 10/100 Mbit Ethernet interface with on-board RJ-45 connector
- 802.3af compliant power passthrough (mid-span and end-span)
- Up to four high-speed serial ports
- UART and SPI mode configurable
- I²C bus interface
- USB 1.1/2.0 compliant host/device
- On-board host connector option
- Integrated LCD controller
- Supports 18-bit active matrix TFT or single/dual panel STN displays (color/monochrome)
- Population options available
 - Processor, memory, connectors

Overview :: The ConnectCore 9C is a powerful ARM9-based core module that enables OEMs to design in core processing functionality and networking capabilities with a single, high-performance solution. It delivers complete embedded network connectivity along with additional bandwidth to handle sophisticated embedded applications including building automation systems, POS systems, RFID readers, medical devices, instrumentation, networked displays, transportation systems, industrial automation systems and many more.

+ Specifications ::

Hardware

- Compact SO-DIMM module design w/industrial operating temperature range
- 32-bit NS9360 high-performance RISC processor (155 MHz) w/MMU
- On-board memory
 - 4 MB Flash and 16 MB RAM
- Up to 4 high-speed TTL async serial ports
 - Data rates up to 921 Kbps
- Up to 4 SPI ports
- I²C v1.0 bus interface
- USB 1.1/2.0 host and device interface
- Integrated LCD controller
- General Purpose Timers/Counters/PWM
- 4 programmable external interrupts
- Up to 55 shared General Purpose Input/Output (GPIO) ports
- JTAG debug header
- Population options available
 - Processor speed grades
 - On-board memory
 - Network/USB connectors

Network Interface

- Standard: IEEE 802.3
- Physical Layer: 10/100Base-T
- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- On-board connector: RJ-45 w/ magnetics and link/activity LEDs
- 802.3af power pass-through (mid-span and end-span)

Part Numbers ::

Worldwide

Model

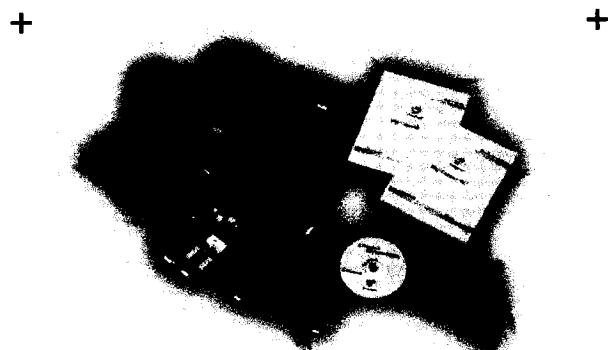
Model	Part Number
ConnectCore 9C Development Kit w/Hardware Debugger	CC-9C-GN
ConnectCore 9C Development Kit w/Software Debugger Only	CC-9C-GN-NR

Bulk packs and customer-specific packaging configurations available.

Digi Connect® Integration Kits :: Plug-and-Play Firmware

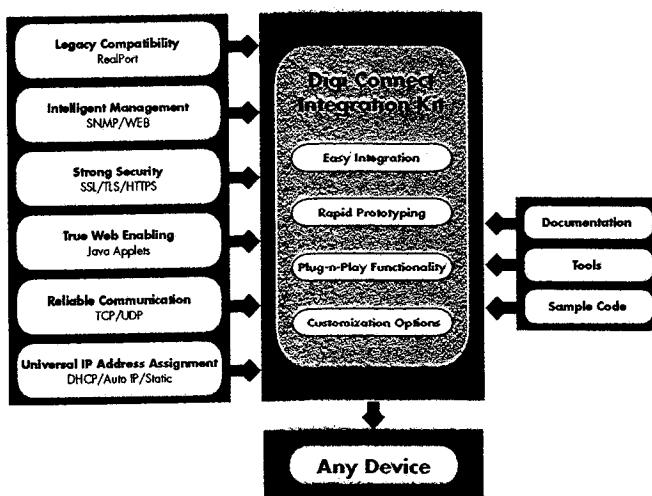
Overview :: Digi Connect Integration Kits enable you to take advantage of embedded device server technology, without extensive hardware and software development. They offer all the tools, sample code and documentation you need to make product integration and web-based product customization possible. They provide a platform for evaluation, rapid prototyping and integration of Digi Connect embedded modules, dramatically reducing time-to-market.

Based on the Digi plug-and-play firmware available on the Digi Connect “-S” modules, our Integration Kits deliver instant and completely transparent wired and wireless device server networking functionality, with the flexibility of web-based customization options. Unique and industry-leading features such as a robust TCP/IP stack, universal IP address assignment, integrated web server with user file system, fully customizable web user interface, custom Java applet support, enhanced security with strong DES/3DES/AES encryption based on the SSL/TLS standard, intelligent device management via SNMP, and patented RealPort® COM/TTY port redirection make it an ideal solution for any application that requires versatility and performance.



+ Features ::

- Robust on-board TCP/IP stack with built-in web server
 - TCP, UDP, DHCP, SNMP, SSL/TLS, Telnet, Rlogin, RFC 2217, LPD, HTTP/HTTPS, SMTP, ICMP, IGMP, ARP
- Universal IP address assignment
 - Static IP, DHCP, Auto-IP
- Secure web-based configuration (HTTP/HTTPS) with context-sensitive online help
- Pre-defined and custom device profiles
- Customizable web browser interface with optional Java applet support
 - File system w/512 kb user space
- Telnet command line interface
- Modem emulation
- Serial configuration interface
 - Command line, RCI
- User-defined network service/port configuration
 - HTTP/HTTPS, Telnet, Rlogin, ADDP, SNMP, RealPort, SSL/TLS, TCP/UDP
- TCP/UDP forwarding characteristics
 - Bytes, Idle Time, Data Pattern
- User-configurable TCP/UDP Socket ID
- Event notification via email/SNMP traps
 - GPIO Status, Data Pattern
- Port logging
- Intelligent SNMP device management
 - RFC 1213/1215/1316/1317
- Strong SSL/TLS based encryption
 - DES (56-bit), 3DES (168-bit), AES (128/256-bit)
- Patented RealPort COM/TTY port redirection with encryption for Microsoft Windows, UNIX and Linux environments



Part Numbers ::

Worldwide

Model

Digi Connect Wi-ME Integration Kit

DC-WME-01T-KT

Digi Connect Wi-ME Integration Kit

DC-WEM-02T-KT

Digi Connect Wi-EM Integration Kit

Bulk packs and customer-specific packaging configurations available.
Please visit our website for a complete list of available part numbers.

Digi Connect® Development Kits :: Based on NET+ Works® 6.x

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+ Features ::

- Development board
- Digi Connect embedded module or external device server w/JTAG
- Macraigor Raven JTAG debugger
- Microcross GNU X-Tools with command line and visual GDB debugger
- ThreadX Real-Time OS with picokernel™ architecture
 - Requires less than 25kB kernel code space
- Fusion™ TCP/IP stack with full networking protocol and extended network services support
 - TCP, UDP, ICMP, IGMP, DNS, SNMPv2, LDAP, POP, SMTP, PPP, FTP, SNTP, Telnet, FastIP, Fast Sockets, Multi-Homing
- Universal IP address assignment through Address Configuration Executive (ACE)
 - Static IP, DHCP, BOOTP, Auto-IP
- Allegro Software Embedded Web Server
- SSL 3.0/TLS 1.0 with strong encryption
 - DES, 3DES, AES
- Flexible and robust file system with wear leveling
- SMICng MIB compiler
- Micro XML SAX parser
- Additional utilities
 - HTML-to-C compiler
 - Flash download
 - Sample code
- Documentation
 - Hardware reference manual
 - Programmer's guide
 - API reference
 - Advanced web server tool kit

Part Numbers ::

Worldwide

Model

Digi Connect Wi-ME Development Kit (GNU)*

DC-WME-01T-GN

Digi Connect Wi-ME Development Kit (GNU)**

DC-WEM-02T-GN

Digi Connect Wi-EM Development Kit (GNU)**

DC-SP-01-GN

Digi Connect SP Development Kit (GNU)

Digi Connect Wi-ME Development Kit (GNU)

* Includes module w/JTAG interface, development board, hardware debugger, NET+Works platform CD, documentation, cables and power supplies.

** Includes module w/JTAG interface, two dipole antennas w/extension cords, development board, hardware debugger, NET+Works platform CD, documentation, cables and power supplies.

Overview ::

Based on the NetSilicon NET+Works 6.x development platform, Digi Connect Development Kits enable you to easily and cost-effectively integrate custom network connectivity into your products with Digi Connect embedded modules. Now you can implement and deploy application-specific and future-proof embedded software solutions for wired and wireless network environments, without the additional complexities of traditional hardware design efforts.

Digi Connect Development Kits deliver a complete out-of-the-box solution for embedded software development. They include all the integrated building blocks that are required to quickly and cost-effectively create secure and fully network-enabled product solutions, including a full suite of development tools, a development board, cables, power supply, hardware debugger, royalty-free Run-Time environment and a complete set of networking protocols and applications software.

Since the Digi Connect embedded modules and Development Kits are based on the common NetSilicon development platform, design risk is minimized and the overall embedded software development process is accelerated. This unique offering provides a seamless migration path to a fully integrated system-on-chip solution using NetSilicon's award-winning family of network-enabled NET+ARM processors.

Digi Connect Development Kits support custom application development for all wired and wireless Digi Connect "-C" models.

Overview :: NET+Works is a complete development environment for network enabling embedded devices. It is specifically optimized for the NetSilicon family of 32-bit NET+ARM microprocessors and Digi Connect® modules. It includes device networking run-time software based on the ThreadX Real-Time Operating System, development tools, a development board and a JTAG debugger in an easy-to-use, integrated solution – all royalty-free.

+ Features ::

- Includes your choice of the high performance Green Hills MULTI Integrated Development Environment or the Microcross GNU tools
- Includes a full Board Support Package and development board for your chosen NET+ARM processor
- Choice of software and hardware JTAG tools: EPI MAJIC, Macraigor Raven or soft debugger
- Includes the lightweight ThreadX Real-Time Operating System from Express Logic along with a TCP/IP stack, and extensive device networking protocol applications (Webserver, email, FTP, Telnet, SNMP, etc.)
- Includes sample applications and full documentation with extensive online APIs and complete networking documentation

See Digi Connect ME® family, Digi Connect EM family and ConnectCore™ 9C for part numbers.

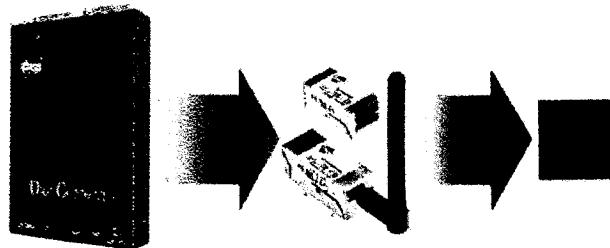
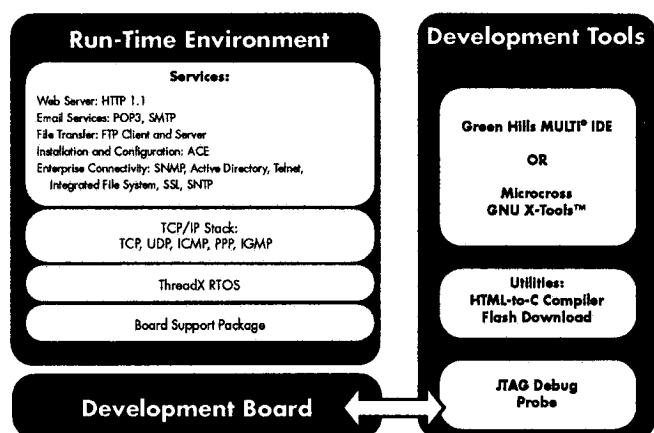


How Do I Get Started?

NET+Works provides a comprehensive tool set across all NetSilicon hardware platforms. Get started by selecting your hardware platform. As part of the tools, we offer a choice of:

- GHS MULTI® or Microcross GNU X-Tools™ compilers
- EPI MAJIC™, Macraigor RAVEN or soft debuggers
- Services such as design reviews, software maintenance and application engineering

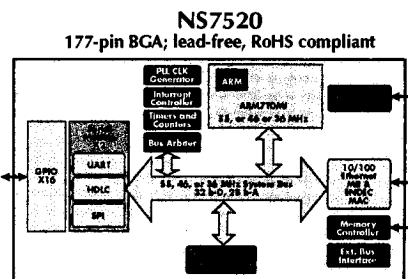
In addition we provide a broad array of third party products and services including Linux, Windows CE, Java, modules and authorized developers.



NET+ARM Microprocessors :: System-on-Chip Solutions

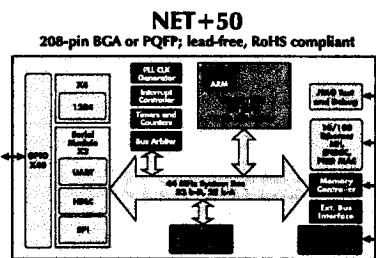
NS7520 :: The NS7520 is a low-cost, easy to integrate, 32-bit network-attached processor specifically designed for connecting serial devices to IP networks. Features include:

- Low-cost 32-bit ARM7-based processor provides all interfaces necessary to easily connect serial devices to a network
- 33-55 MHz ARM7 TDMI CPU
- Offers glueless interfaces to 10/100Base-T Ethernet, UART, SPI serial ports and GPIO
- Supported by the comprehensive, integrated and royalty-free NET+Works® development suite



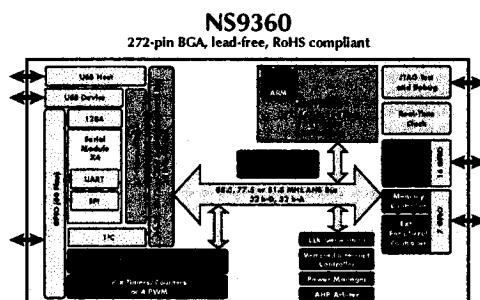
NET+50 :: The NET+50 is a processor developed especially for print servers. Features include:

- Specialized ARM7-based processor for use in developing networked print servers
- 44 MHz ARM7 TDMI CPU with 8 kB cache
- Provides glueless interfaces to USART, SPI serial ports and GPIO combined with four IEEE 1284 host ports and a co-processor interface
- Supported by the comprehensive, integrated and royalty-free NET+Works development suite



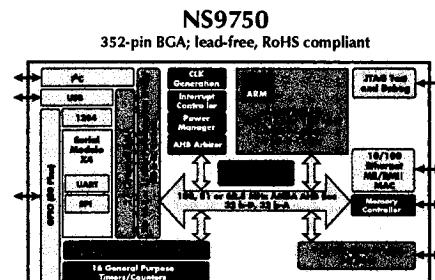
NS9360 :: The NS9360 is a highly integrated 32-bit network-attached processor specifically designed for use where price, performance and a rich set of peripherals are important. Features include:

- High performance ARM9-based processor provides compute bandwidth for demanding embedded device networking applications
- 103-177 MHz ARM926EJ CPU with MMU and 8 kB/4 kB instruction/data cache
- High level of peripheral integration provides glueless interfaces to a rich set of industry standard devices: 10/100Base-T Ethernet, USBd, USbh, LCD, 4xUART/SPI, I²C, IEEE 1284, serial ports and GPIO.
- Supported by the comprehensive, integrated and royalty-free NET+Works development suite



NS9750 :: The NS9750 is a highly integrated 32-bit network-attached processor specifically designed for use in intelligent networked devices and Internet appliances where performance, price and a rich set of peripherals including CardBus and PCI are needed. Features include:

- High performance ARM9 32-bit processor provides compute bandwidth for the most demanding embedded device networking applications
- 125-200 MHz ARM926EJ processor with 8 kB/4 kB instruction/data cache and MMU
- High level of peripheral integration provides glueless interfaces to a rich set of industry standard devices: USB, PCI or CardBus, I²C, IEEE 1284, serial ports, a high performance LCD controller and GPIO
- Supported by the comprehensive, integrated and royalty-free NET+Works development suite

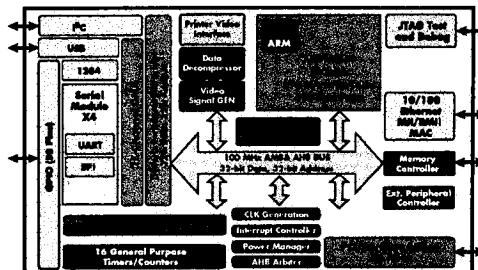


NET+ARM Microprocessors :: System-on-Chip Solutions

NS9775 :: The NS9775 is a highly integrated processor specially designed for color laser printers. Features include:

- High performance 32-bit processor provides networking and decompression bandwidth for raster printer applications
- ARM926EJ processor with 8 kB/4 kB instruction/data cache and MMU
- High level of peripheral integration provides glueless interfaces to a rich set of industry standard devices: USB, PCI or CardBus, I²C, IEEE 1284, serial ports, a high performance LCD controller and GPIO
- Supported by the comprehensive, integrated and royalty-free NET+Works® development suite

NS9775
352-pin BGA; lead-free, RoHS compliant



Part Numbers ::

Worldwide

Model	
36 MHz, 0° C to 70° C	NS7520B-1-C36
55 MHz, 0° C to 70° C	NS7520B-1-C55
NET+50	
With NET+OS Operating System (BGA)	NET+50-QIT-3
For NET+OS Operating System (PQFP)	NET+50-QINP-3
With pSOS License (BGA)	NET+50-QIN-3
With no license (BGA)	NS9360B-0-C103
For No Operating System (PQFP)	NS9360B-0-C177
103 MHz, 0° C to 70° C	NS9750B-0-C125
177 MHz, 0° C to 70° C	NS9750B-0-C200
125 MHz, 0° C to 70° C	NS9750B-0-C125
200 MHz, 0° C to 70° C	NS9750B-0-C200
125 MHz, 0° C to 70° C	NS9750B-0-C200
200 MHz, 0° C to 70° C	NS9750B-0-C200

Note: OS versions contain paid fees for the run-time license.
All at 44 MHz and -40° C to +85° C operation.

Console Management

Intelligent Console Servers and Power Management

When a network collapses, productivity and profits also fall, generating a serious impact on a company's bottom line. The longer the network is down, the greater the consequences. Console management enables immediate response in critical situations and eliminates costly travel to remote sites. Console management is a powerful and efficient enhancement to your network management system.

With ever-expanding network infrastructures, the challenge of maintenance becomes even more difficult. Having a terminal connected to the console of every networked device is no longer practical with the proliferation of remote locations. Console management solves this problem, providing secure access to every device through the corporate intranet, over the Internet, or through a dial-up connection.

Digi provides a complete family of intelligent, secure and easy console management products to address local and remote data center requirements, including Digi CM™ console servers and Digi Remote Power Manager. These products, coupled with Digi's strong technical support, 24/7 service agreement options and five-year warranty, make console management a cost-effective and reliable solution to maximize network profitability. You will enjoy the simplicity of connecting servers to Digi CM using straight-through CAT5 cabling along with our converter cables/adapters.

Digi CM: Intelligent. Secure. Easy.

What can Digi CM do for you?

- Monitor and control IT equipment such as Sun servers, Cisco routers, network switches, intelligent power supplies and telephone switches through industry standard serial console ports **Digi CM**
- Securely access any mix of network devices via standard TCP/IP connections over Ethernet LANs or dial-up modem connections **Digi CM**
- Maintain logs of all activity on servers and network equipment to comply with current and future regulations and policies, such as Sarbanes-Oxley **Digi CM**
- Maximize server uptime, increase IT efficiency and improve your bottom line **Digi CM**
- Remotely power on/off devices **Digi RPM**
- Configure alarms for 24/7 "real time" notification of out-of-spec conditions including load and ambient temperature **Digi RPM**

**Visit our website to download our
Console Management Solution Guide
www.digi.com/products/literature**

+ Console Management – Intelligent Console Servers and Power Management

Console Servers

- Digi CM™ pg. 54

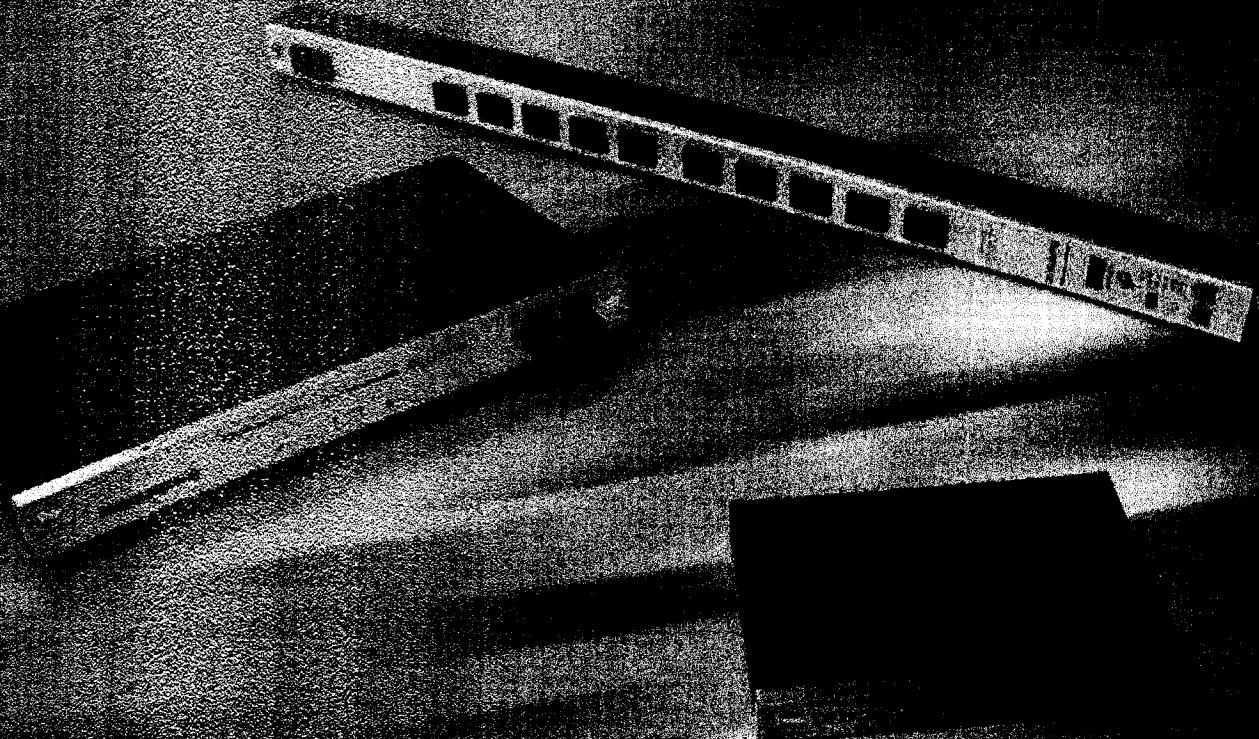
Power Management

- Digi Remote Power Manager (Digi RPM) pg. 54

Management Tools/Special Features

- Automatic Device Recognition pg. 57

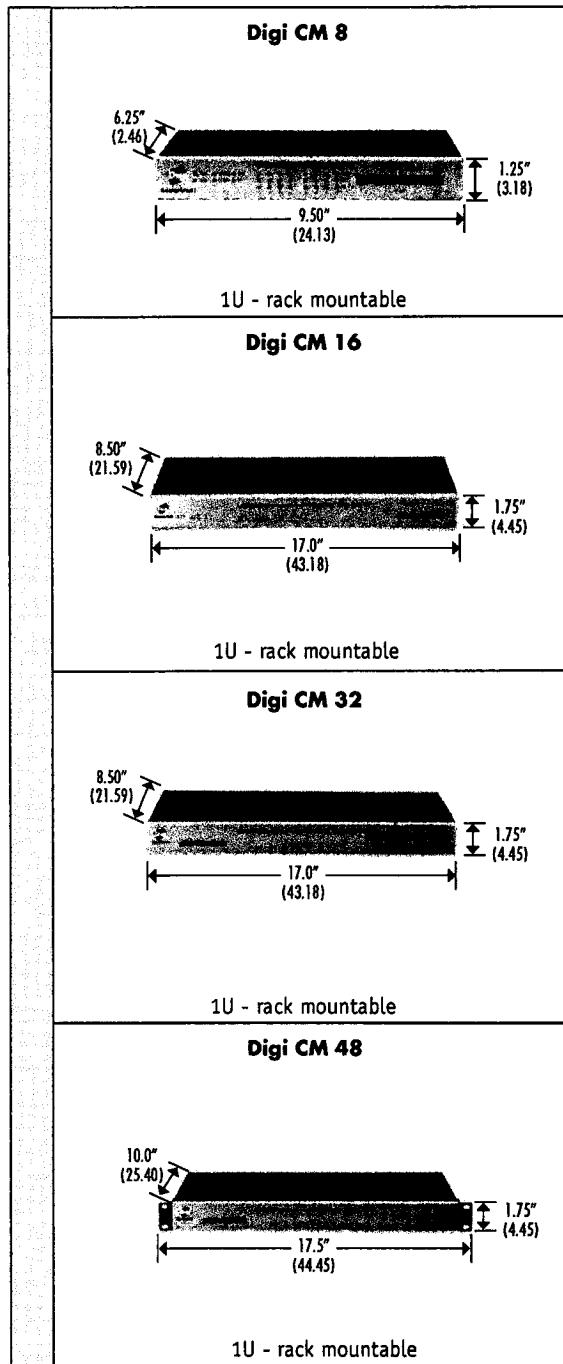
* For simple serial connections in the server room, please see the PortServer® TS 8/16 family of terminal servers, page 21.



Test drive a real Digi CM at www.digi.com/digiclient

www.digi.com/digiclient

	Digi CM 8	Digi CM 16	Digi CM 32	Digi CM 48
Digi CM Hardware Features	Serial Console Ports 8	16	32	48
Digi CM Firmware Features	Serial Type RS-232	RS-232	RS-232	RS-232
Digi CM Hardware Features	Serial Connector RJ-45	RJ-45	RJ-45	RJ-45
Digi CM Firmware Features	Ethernet Ports 1	1	1	1
Digi CM Hardware Features	10/100 Mbps •	•	•	•
Digi CM Firmware Features	PC Card •	•	•	•
Digi CM Hardware Features	100/240VAC •	•	•	•
Digi CM Firmware Features	48VDC Option •	•	•	•
Digi CM Hardware Features	Dual AC Version			•
Digi CM Firmware Features	Rack Mount 1U	1U	1U	1U
Digi CM Hardware Features	SSH v2 •	•	•	•
Digi CM Firmware Features	Radius •	•	•	•
Digi CM Hardware Features	Secure Sockets Layer (SSL) •	•	•	•
Digi CM Firmware Features	Sun Break-Safe •	•	•	•
Digi CM Hardware Features	IP Filtering •	•	•	•
Digi CM Firmware Features	Secure Clustering •	•	•	•
Digi CM Hardware Features	HTTPS •	•	•	•
Digi CM Firmware Features	Port Alert Email •	•	•	•
Digi CM Hardware Features	SNMP •	•	•	•
Digi CM Firmware Features	Individual Access Per Port •	•	•	•
Digi CM Hardware Features	Automatic Device Recognition •	•	•	•
Digi CM Firmware Features	Embedded Linux •	•	•	•



Measurements: inch
 (cm)

Digi RPM	
Digi RPM Features	
Power Outlets	8/10
120VAC Models	•
240VAC Models	•
Serial Ports	2
Serial Type	RS-232
Serial Connector	RJ-45
Rack Mount	OU and 1U
Amps	16
Terminal Server Integration	•
Integrated Web UI	•
Daisy Chaining	Up to 10 units
Port Name Assignment	•
Integrated Temperature Sensor	•
Temperature/ Load Email and SNMP Alerts	•
Power Sensor	•
Adjustable Alarm LED for High Current Alert	•
Front Panel LCD (Voltage, Current, Power)	•

Digi RPM 8

1U - rack mountable

Digi RPM 10

OU - rack mountable

Measurements: inch (cm)

* One serial port for communications, one serial port for daisy-chaining.

Digi CM™ :: Console Servers

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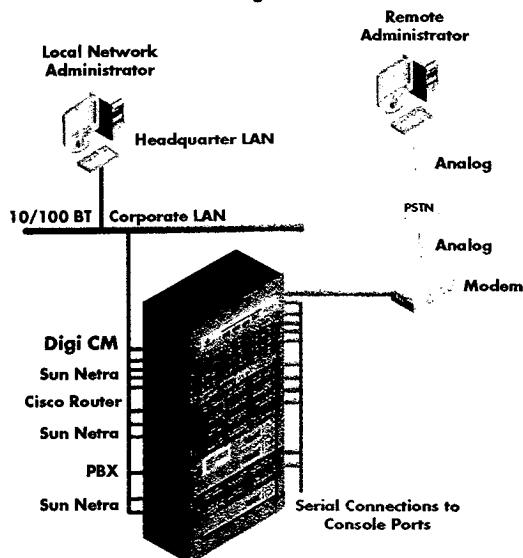
Product Overview :: Digi CM is a best of breed console server which provides intelligent, secure and easy access to any network equipment with a serial console port. With Digi CM, administrators can securely monitor and control servers, routers, switches, PBX, firewalls and other network devices from anywhere on the corporate TCP/IP network, over the Internet, or through dial-up modem connections – even when the server is unavailable through the network.

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+ Features ::

- Sun, Cisco, IBM, HP, UNIX, Linux and Microsoft Windows Server™ 2003 compatible
- SSH v2 for secure access
- 1U 19" rack-mountable for better co-location with network hardware
- Automatic Device Recognition for simple setup and alert notification
- Secure clustering (up to 544 devices) allows multi-server access via one IP address
- Port buffering/logging for troubleshooting and regulatory audits
- Email/pager alerts and SNMP traps
- RADIUS, TACACS+, Kerberos and LDAP for a variety of authentication options
- Straight-through CAT5 cabling for easy server connection
- PC Card slot for Wi-Fi, memory or modem cards
- 24/7 service agreements available
- 5-year warranty

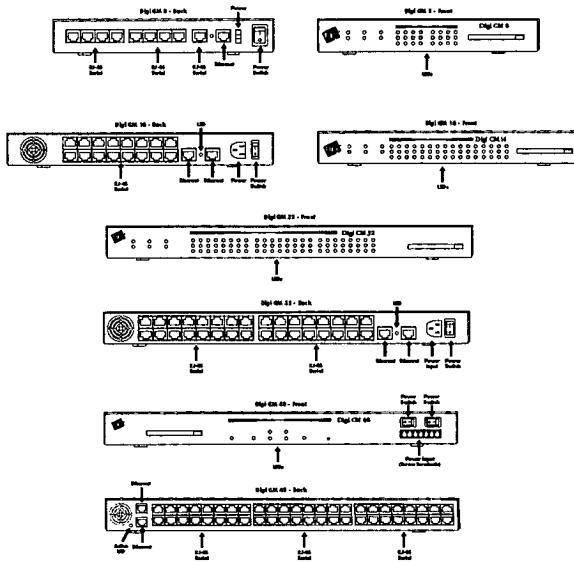
Remote Data Center Management



www.digi.com/cmdemo

+ Specifications ::

- 8/16/32/48 ports
- Security
 - SSH v2 server and client
 - SSL
 - IP filtering
- Authentication via TACACS+, RADIUS, LDAP, Kerberos, local user database
- Management
 - Command line
 - Web – HTTP/HTTPS
 - SNMP
 - Port triggers and alerts
 - Multi-level menuing
 - Auto-discovery
 - Automatic Device Recognition
- Data capture via port buffering and logging (syslog, NFS, PC Card)
- Port access via Telnet/SSH with menuing, Reverse Telnet/SSH, HTTP/HTTPS
- Multiple users per port (up to 15)
- Flash upgradeable
- SSH sessions simultaneously on all ports
- Secure clustering - single IP for multiple Digi CM devices
- Separate IP address per port



www.digi.com/digicm

Digi CM™ :: Console Servers

Digi CM Monitoring Capabilities

Documenting regulatory compliance is a constant drain on financial and staffing resources. With the advanced auditing, logging and monitoring functions of the Digi CM, it is possible to implement effective security and change-control policies that allow real-time, continual compliance monitoring, while often improving productivity.

Auditing

The Digi CM provides a physical choke-point gateway to all the systems to which it provides access. Whether this is network equipment such as routers and switches, or UNIX or Linux systems, if security policies require privileged system access to occur through the Digi CM, then all changes are logged and documented.

- User management via centralized server (RADIUS, LDAP, TACACS+) or independent user list
- Separated admin and user responsibilities; most users do not need privileged access to the Digi CM
- Customizable user access controls
- Remote Ports capability to provide auditable access to systems, without requiring a physical console connection to them

Logging

Its dual logging capability enables the Digi CM to log all activity simultaneously to two independent

systems. Automatic real-time testing of the logs will uncover any discrepancies without requiring the production system to be offline.

- NFS
- Syslog
- Logging to optional Flash card
- Secure simultaneous multiple read access – allows third party applications to log data on a port
- Log playback option

Notification

In addition to monitoring access to systems, the Digi CM can monitor the state of the systems themselves, sending alerts whenever a cable is unplugged, a system is rebooted, the system is accessed by any user over the network, the port a system is connected to changes, or a system fault occurs. The Digi CM will send independent notification, allowing rapid remediation of any event causing a system to be in a non-compliant state.

- Syslog and SNMP for easy integration into existing NMS
- SMTP for email or SMS notification
- Custom notification allows specification of port, keyword, method, recipient and destination system for each entry



Part Numbers::

North America International

Model

Digi CM 8	70001931	70001932
Digi CM 8 - 48VDC	70002034	70002034
Digi CM 16	70001910	70001911
Digi CM 16 - 48VDC	70001938	70001938
Digi CM 32	70001908	70001909
Digi CM 32 - 48VDC	70001937	70001937
Digi CM 48	70001949	70001950
Digi CM 48 - Dual AC	70001951	70001952
Digi CM 48 - 48VDC	70001953	70001953

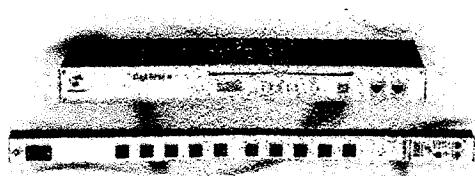
Cable Adapters

Digi CM DB-25 Male Modem Adapter (8-pack)	76000670	76000670
Digi CM DB-9 Female Console Adapter (8-pack)	76000671	76000671
Digi CM DB-25 Male Console Adapter (8-pack)	76000672	76000672
Digi CM DB-25 Female Console Adapter (8-pack)	76000673	76000673
Digi CM DB-9 Male Modem Adapter (8-pack)	76000702	76000702
23" Telco Rack Mount Kit	76000689	76000689

All cables and accessories: pg. 111.

Digi RPM :: Power Management

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Digi RPM :: Digi Remote Power Manager
(Digi RPM) provides an easy solution for the supervisory control and management of attached electrical devices. When integrated with Digi CM™ or select PortServer® TS solutions, Digi RPM provides an interface for users to configure alarms for 24/7 "real-time" notification of out-of-spec conditions including load and ambient temperature. Administrators can remotely reboot unresponsive servers or shut down unused devices, while also performing console management from a common web browser interface menu.

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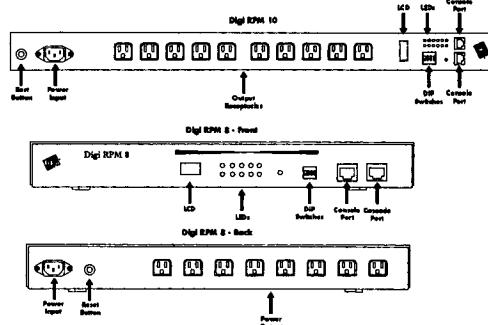
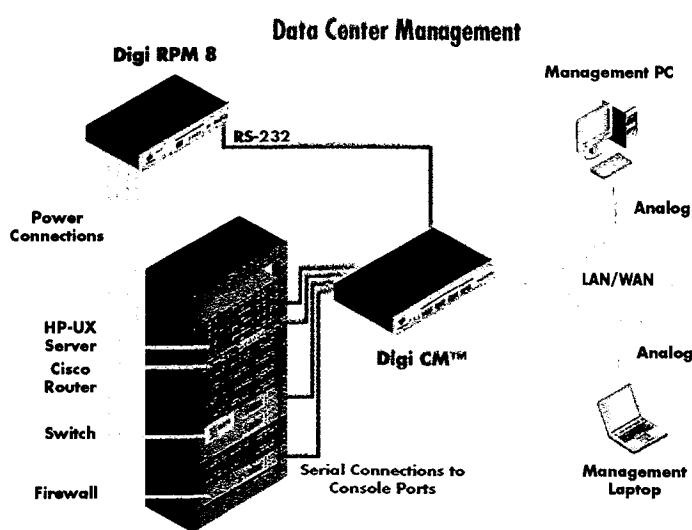
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+ Features ::

- Remotely power on/off devices instead of sending a technician to reboot onsite
- Front panel LCD for direct viewing of total current load and power
- Measure electrical load to intercept power overloads before they occur
- Monitor ambient temperature to prevent loss of key assets due to overheating
- Configure alarms to allow 24/7 "real-time" monitoring of critical devices
- Integration with Digi CM provides common interface for console and power management over Ethernet
- Cascading allows daisy-chaining up to ten Digi RPMs to a single Digi CM serial port
- 5-year warranty

+ Specifications ::

- 8-port 1U rack-mountable and 10-port 0U rack mountable models
- 120VAC, 16A and 240VAC, 16A models (up to 10A per port)
- Front panel LCD for direct viewing of total current load and power consumption
- 2 RJ-45 serial ports (one for communications, one for daisy-chaining)
- Power sensor (watts)
 - Average/apparent power
 - RMS voltage/current
 - Circuit breaker status
 - Max current
- Integrated temperature sensor measures temperature in the rack environment
- Integrated with user interface of Digi CM and PortServer TS products
- Cascading allows up to 10 Digi RPMs to be daisy-chained to a single Digi CM serial port
- Alarm LED for high current alert (software adjustable)
- Command line interface for direct serial connection
- Ships with cables required to connect to Digi CM, PortServer TS or PC serial port
- One status indicator LED per port for outlet status/alarm indication



North America International

Part Numbers ::

Model

- Digi RPM 8 - 1U, 8 outlets, 120VAC, 16A
Digi RPM 8 - 1U, 8 outlets, 240VAC, 16A
Digi RPM 10 - 0U, 10 outlets, 120VAC, 16A
Digi RPM 10 - 0U, 10 outlets, 240VAC, 16A

- 70002004 Not available Not available
Not available 70002005 Not available
70002006 Not available 70002007
Not available 70002007

All cables and accessories: pg. 117.

Automatic Device Recognition :: Management Tools/Special Features

Overview :: Digi's Automatic Device Recognition feature is included with all Digi CM solutions. It makes configuration and management of console servers easier by detecting which type of server, router or switch is connected to the unit. By automatically recognizing the device, administrators will reduce errors caused by incorrect cabling and can also reduce network equipment downtime by receiving alerts when devices go off-line.

When a user accidentally unplugs a device, then plugs it back into a different port, major issues can result and identifying the problem can be a big problem. Automatic Device Recognition can detect this type of cable change and the "Port #" and "Title" portions of the web browser interface will be updated to reflect the new location of the device. Automatic Device Recognition is also a time saver at the point of initial configuration and installation, as the installer does not have to remember which server is plugged into which port. This reduces confusion and risk, thus maximizing uptime of console server systems.

Digi CM with Automatic Device Recognition can also monitor each of the serial ports, ensuring that the attached device does not go off-line. For example, if a server attached to a Digi CM via the serial console port went down, Automatic Device Recognition could detect this condition and send out an SNMP trap or email message to notify the administrator for immediate action.

Serial port connection						
Port access menu connection			Individual port connection			
P	C	M	Port#	Title	# of User	Comments
■	■	■	1	Loopback Plug	0	< Not used >
■	■	■	3	C1800.Router.port3	0	< Not used >
■	■	■	5	Ibm.SunSPARC-Demo.s0t5	0	< Not used >

Ports 3 and 5 were automatically detected using Automatic Device Recognition.

USB Connectivity

Converters, Hubs, Cameras, Sensors and More



Inside Out Networks, a Digi International company, is a leading provider of "out-of-the-box" (external) USB connectivity solutions utilizing Plug and Play technology. Since its inception in 1997 with the launch of the Edgeport/4 USB-to-serial converter, Inside Out Networks' product offering has evolved to include leading edge solutions such as RealPort® USB (USB Over IP®), USB PlusPower, Bluetooth wireless, environmental monitoring and more.

Because of its reliable performance and ease of use, USB technology has gained popularity in recent years in both consumer and enterprise applications. We focus on the mission-critical enterprise market, solving connectivity challenges in retail/POS, mobile computing, medical and industrial automation. Our solutions have been utilized in thousands of applications worldwide, including self check-out systems, ATMs, emergency vehicles, hospital rooms, warehouses and manufacturing facilities, where failure and downtime simply are not options.

What makes us the Leader in Enterprise USB Connectivity? Customer-driven product development. Complete Windows operating system compatibility, including Windows NT, Windows NT Embedded and Windows CE. Feature-rich product design. An extensive range of USB and wireless solutions. And most importantly, reliable product performance.



What do you need to do?

- + Network-enable and remotely monitor a USB device via TCP/IP **AnywhereUSB**
- + Add serial, parallel or USB ports to a PC, server or notebook, without opening the chassis, reconfiguring or rebooting **Edgeport**
- + Eliminate individual power bricks for USB peripheral devices..... **USB Plus Series**
- + Implement a cost-effective surveillance system with motion detection capabilities **Watchport/V2, Watchport Sentry**
- + Monitor environmental conditions in a kiosk, server room or data center **Watchport Sensors, Watchport Manager**
- + Utilize external V.92 modems for easy dial-up remote access **Rapidport/4**
- + Connect industrial-grade USB peripheral devices to a legacy-free PC **Hubport**
- + Add a thin client without a networking card to the LAN **Wavespeed/LAN**
- + Add Windows NT compatibility to a USB device for large-scale installations **EdgeUSB**

+ USB Connectivity – Converters, Hubs, Cameras, Sensors and More

RealPort® USB (USB Over IP®)

- AnywhereUSB pg. 65

USB-to-Serial

- Edgeport® pg. 66

USB PlusPower

- USB Plus Series pg. 70

USB Environmental Monitoring

- Watchport®/V2 USB Camera pg. 72
- Watchport® Sensors pg. 73

USB Modem Bank

- Rapidport/4® pg. 74

Industrial USB Hubs

- Hubport® pg. 75

802.11b Wireless LAN

- Wavespeed®/LAN pg. 76

Windows NT Software

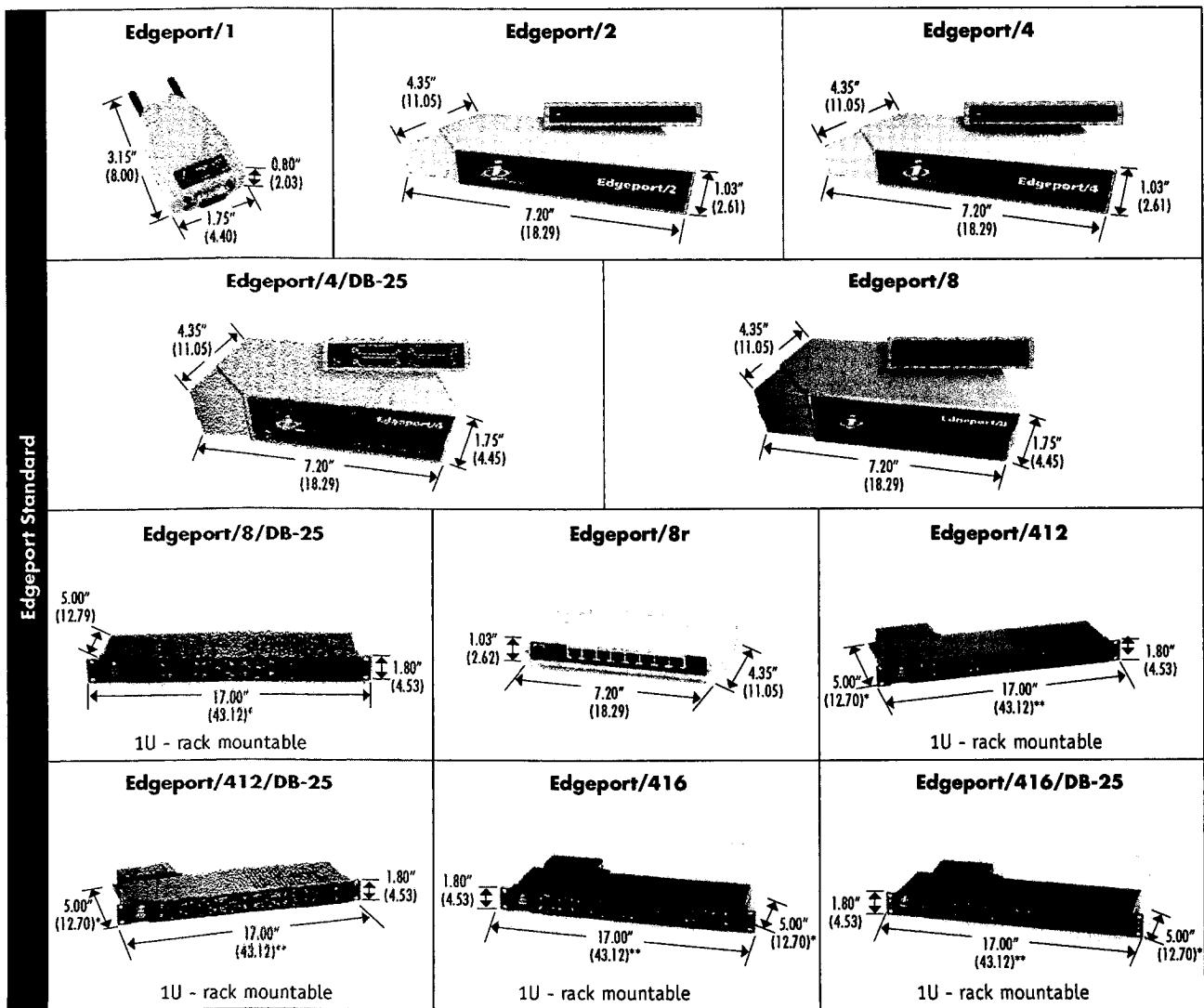
- EdgeUSB pg. 77

Management Tools/Special Features

- RealPort USB (USB Over IP) pg. 78
- Watchport® Manager pg. 78
- Watchport® Motion Detection Software pg. 79

* See page 87 for Wavespeed/S Bluetooth wireless adapters.

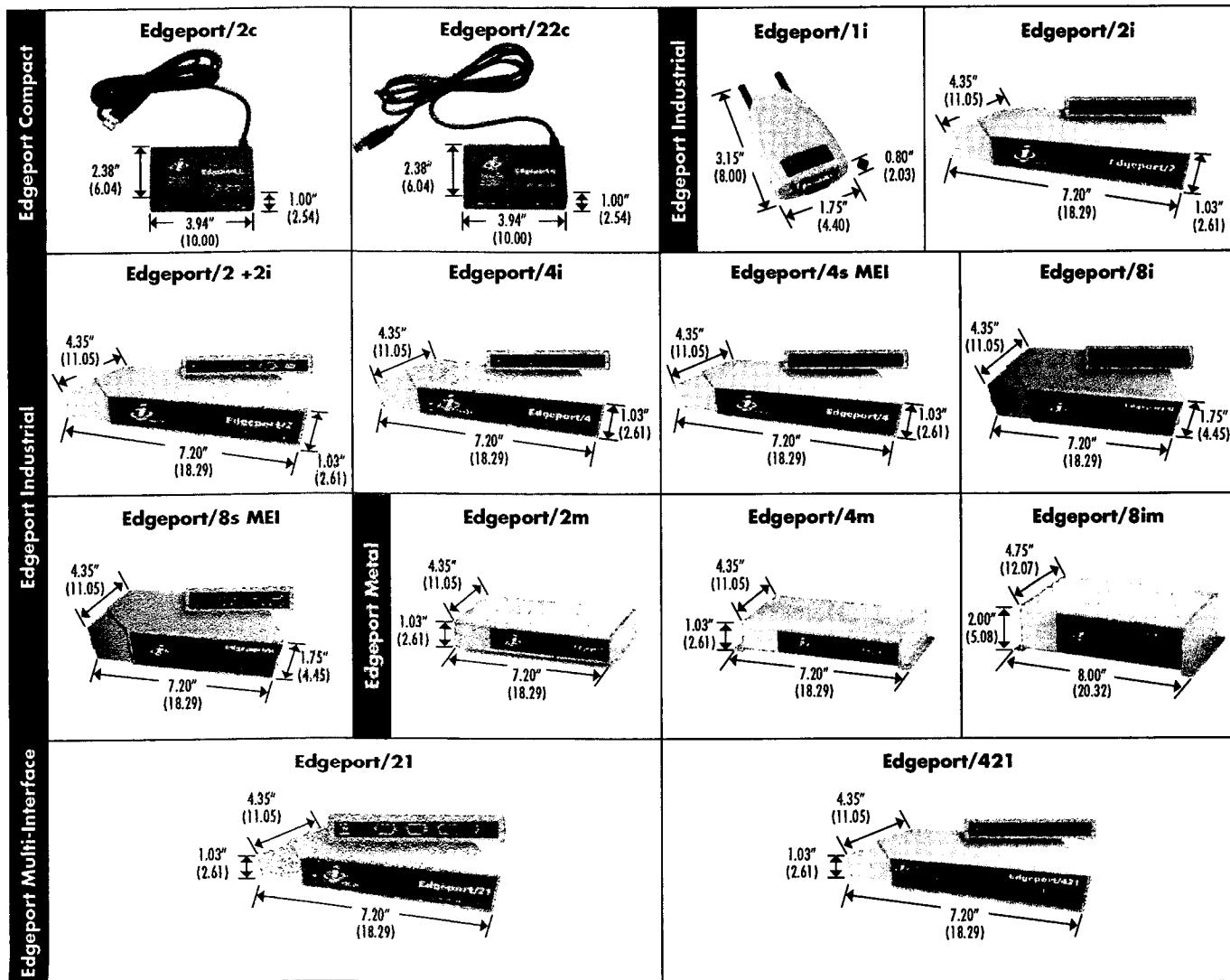
USB Features Chart	Edgeport Standard	Edgeport/1	Edgeport/2	Edgeport/4	Edgeport/4/DB-25	Edgeport/8	Edgeport/8/DB-25	Edgeport/8r	Edgeport/412	Edgeport/412/DB-25	Edgeport/416	Edgeport/416/DB-25
Serial Ports	1	2	4	4	8	8	8	12	12	16	16	16
Serial Type	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232
Serial Connector	DB-9M	DB-9M	DB-9M	DB-25M	DB-9M	DB-25M	RJ-45	DB-9M	DB-25M	DB-9M	DB-25M	DB-25M
Downstream USB Ports								4	4	4	4	4
Parallel Ports												
Comments	• 2-meter captive cable version and bulk packs available					• 1U rack-mountable		• 1U rack-mountable	• 1U rack-mountable	• 1U rack-mountable	• 1U rack-mountable	• 1U rack-mountable



Measurements: inch
(cm)

* 8.63" (21.92 cm) w/optional power supply tray
** 19.00" (48.26 cm) w/optional rack mount ears

Edgeport Compact	Edgeport/2c	Edgeport/22c	Edgeport Industrial	Edgeport/1i	Edgeport/2i	Edgeport/2+2i	Edgeport/4i	Edgeport/4s MEI	Edgeport/8s MEI	Edgeport/8i	Edgeport Metal	Edgeport/2m	Edgeport/4m	Edgeport/8im	Edgeport Multi-Interface	Edgeport/21	Edgeport/421
2	2		1	2	4	4	4	8	8		2	4	8		2	2	
RS-232	RS-232		RS-422/ 485	RS-422/ 485	RS-232 x 2 RS-422 x 2	RS-422	RS-232/ 422/485	RS-232/ 422/485	RS-422		RS-232	RS-232	RS-422		RS-232	RS-232	
DB-9M	DB-9M		DB-9M	DB-9M	DB-9M	DB-9M	DB-9M	DB-9M		DB-9M	DB-9M	DB-9M	DB-9M		DB-9M	DB-9M	
	2															4	
															1	1	
• 2-meter captive cable	• 2-meter captive cable						• Software selectable	• Software selectable			• Rugged aluminum chassis	• Detachable mounting brackets		• Rugged aluminum chassis	• Detachable mounting brackets		
• Compact form factor	• Compact form factor										• Detachable mounting brackets						

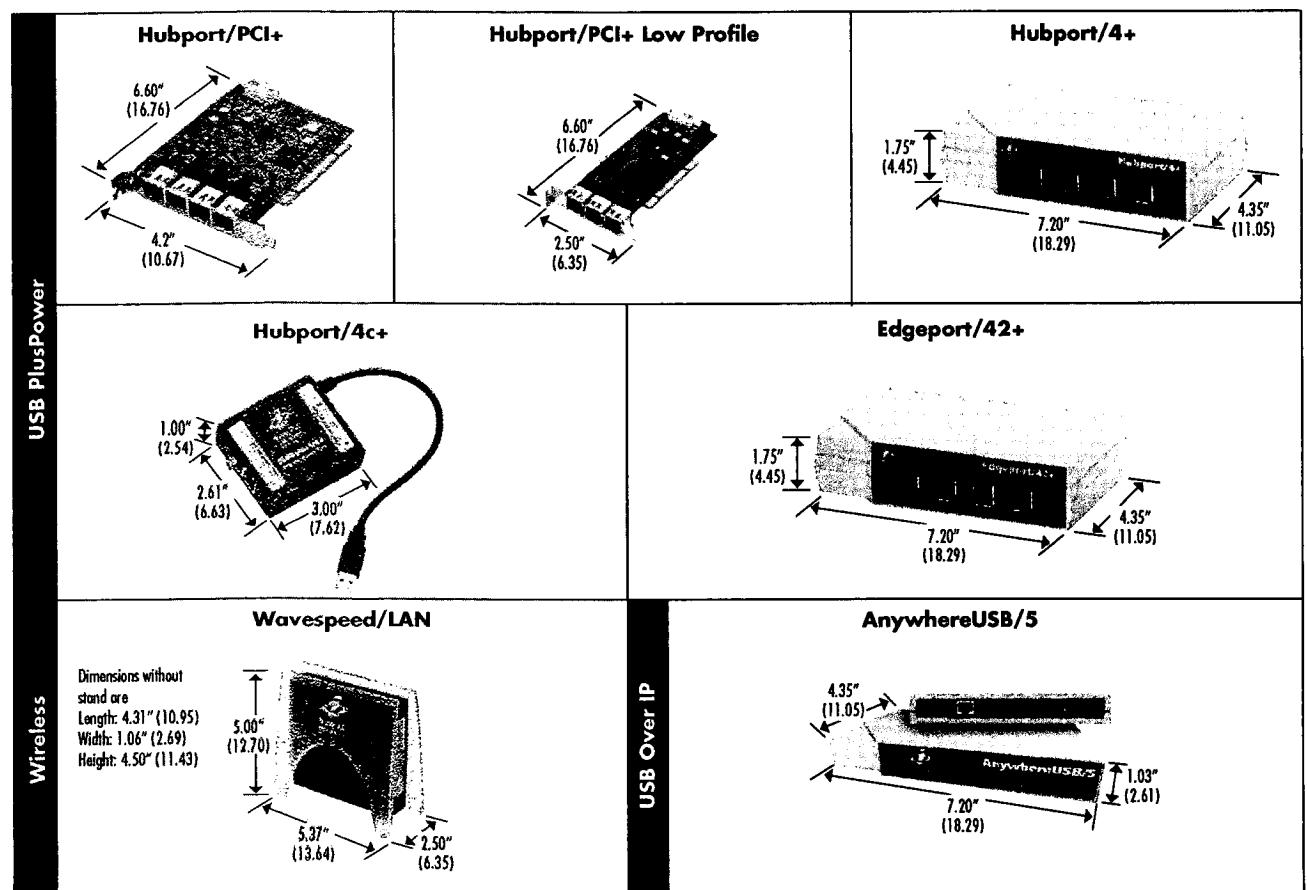


Measurements: inch
(cm)

Edgeport ships with 1-meter detachable USB cable unless otherwise noted.

	USB Plus Series	Hubport/PCI+	Hubport/PCI+ LP	Hubport/4+	Hubport/4c+	Edgeport/42+
Ports	4 USB PlusPower	1/3 USB PlusPower	4 USB PlusPower	4 USB PlusPower	4 USB PlusPower, 2 RS-232 serial DB-9M	
Comments	<ul style="list-style-type: none"> • 1 @ 24V • 3 @ 12V • Internally and externally powered models • Full-sized PCI 	<ul style="list-style-type: none"> • 1 @ 24V (1-port version) • 3 @ 12V (3-port version) • Low profile PCI 	<ul style="list-style-type: none"> • 1 @ 24V • 3 @ 12V • Externally powered 	<ul style="list-style-type: none"> • 1 @ 24V • 3 @ 12V • Externally powered • Compact form factor • 10.0" (25 cm) captive cable 	<ul style="list-style-type: none"> • 1 @ 24V • 3 @ 12V • Externally powered 	

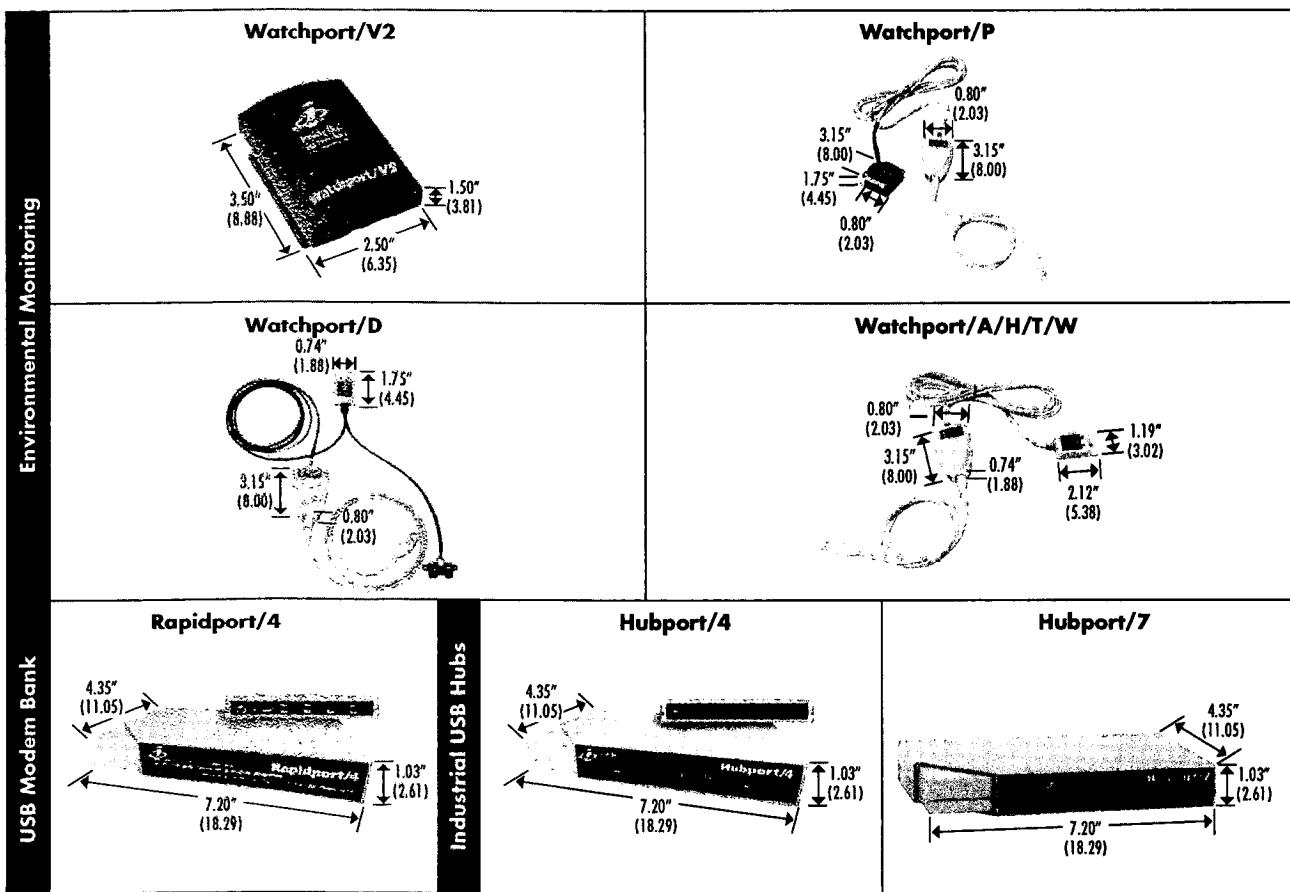
	Environmental Monitoring	Watchport/T	Watchport/W	802.11b Wireless LAN	Wavespeed/LAN
Ports	N/A	N/A	N/A	N/A	N/A
Comments	<ul style="list-style-type: none"> • Temperature sensor • Watchport Manager software included 	<ul style="list-style-type: none"> • Water detector • Watchport Manager software included 		<ul style="list-style-type: none"> • USB to 802.11b wireless Ethernet adapter 	



Measurements: inch
(cm)

Environmental Monitoring	Watchport/V2	Watchport/P	Watchport/D	Watchport/A	Watchport/H
N/A	N/A	N/A	N/A	N/A	N/A
<ul style="list-style-type: none"> • USB camera • Watchport Manager software included • Motion detection software available • Optional lens pack 	<ul style="list-style-type: none"> • Proximity sensor • Watchport Manager software included 	<ul style="list-style-type: none"> • Distance sensor • Watchport Manager software included 	<ul style="list-style-type: none"> • Accelerometer/Tilt sensor • Watchport Manager software included 	<ul style="list-style-type: none"> • Humidity and temperature sensor • Watchport Manager software included 	

USB Over IP	AnywhereUSB/5	USB RAS	Rapidport/4	Industrial USB Hubs	Hubport/4	Hubport/7
5 USB 10/100Base-T Ethernet		4 V.92 modems, RJ-11 1 downstream USB		4 downstream USB, 1 upstream USB		7 downstream USB, 1 upstream USB
<ul style="list-style-type: none"> • Connects to LAN via RJ-45 Ethernet 		<ul style="list-style-type: none"> • On-board USB hub • Dual unit packaging available 		<ul style="list-style-type: none"> • Models available with variable DC input power from 10-26 volts • USB 1.1 	<ul style="list-style-type: none"> • Locking power connector • Available with variable DC input power from 10-26 volts • USB 1.1 	



Measurements: inch
(cm)

*See USB Plus Series for Edgeport with powered USB ports.

	<i>Windows Server 2003</i>	<i>Windows XP, XP Embedded</i>	<i>Windows NT, Windows NT Embedded*</i>	<i>Windows 2000/ME</i>	<i>Windows 98/95</i>	<i>Windows CE</i>	<i>Linux</i>	<i>Sun Solaris**</i>
Edgeport	•	•	•	•	•	•	•	•
USB Plus Series	•	•	•	•	•	•		
AnywhereUSB	•	•	•	•				
Watchport/V2 USB Camera	•	•	•	•				
Watchport Sensors	•	•	•	•	•	•		
Wavespeed/LAN	•	•	•	•	•			
Rapidport/4	•	•	•	•	•	•	•	
Hubport	•	•	•	•	•	•	•	•

* Our Windows NT drivers enable our solutions to work on Windows NT systems. They do not transfer Windows NT compatibility to the attached USB peripheral devices

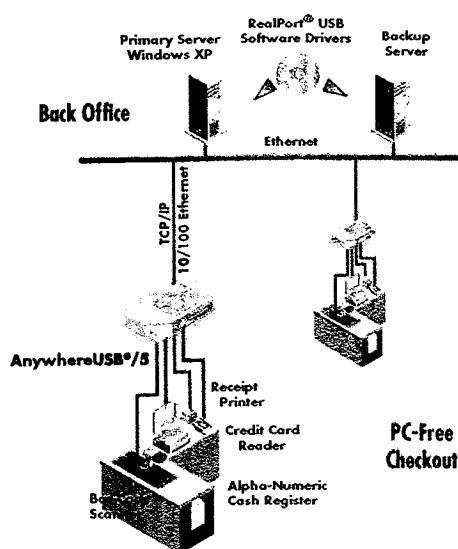
** Solaris driver (X86 only) supported by Sun Microsystems.

AnywhereUSB® :: RealPort® USB (USB Over IP®)

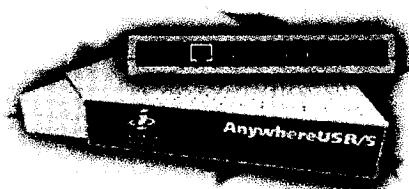
Overview :: AnywhereUSB is a network-enabled USB hub. It utilizes patented RealPort USB technology to connect USB devices anywhere on a TCP/IP network, without a locally attached host PC. This means you are no longer bound by the 16-foot USB cabling distance limitation. AnywhereUSB/5 offers five USB ports to connect bulk or interrupt type peripheral devices such as bar-code scanners and receipt printers, as well as our Watchport®/V2 USB camera and Watchport® sensors. AnywhereUSB is ideal for retail/POS and building automation/security applications.

+ Features ::

- Network-enables USB or other POS devices
- Works with Ethernet or wireless IP networks
- Extends USB cabling distance beyond 5 meters
- Works with existing application software, protecting technology investment
- USB ports appear to be locally attached and provide same Plug and Play experience as on-board USB ports
- Access and monitor USB devices over TCP/IP network connection from across the globe
- Windows NT USB stack included
- Allows PC to be remotely located
- Increases security and simplifies operations
- 5-year warranty



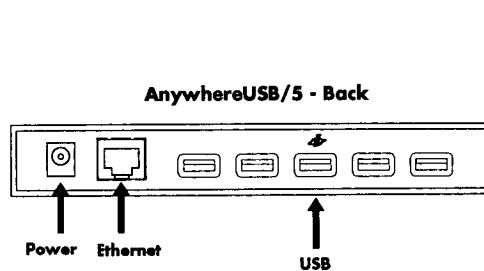
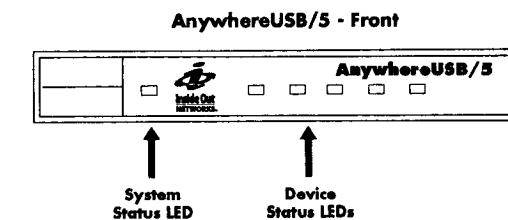
+ +



+ +

+ Specifications ::

- 10/100Base-T Ethernet with RJ-45 connector
- 5 USB ports
- USB 1.0, 1.1 and 2.0 compatible (USB 2.0 devices operate at 12 Mbps)
- Remote configuration utility
- Field-upgradeable software, firmware
- LEDs for system and device status
- 2 Open Host Controller Interface (OHCI) controllers
- Multiple units supported on a single server
- Compatible with bulk and interrupt type USB devices; isochronous devices not supported at this time
- Compatible with Windows NT/NT Embedded, Windows Server 2003, Windows XP/XP Embedded and Windows 2000/Me



Part Numbers::

North America International

Model

AnywhereUSB/5 - Ethernet to 5 USB ports

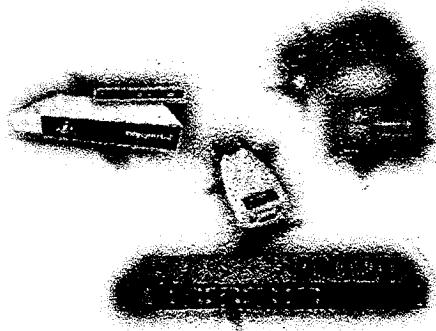
301-1119-01 301-2130-01

All cables and accessories: pg. 112.

Edgeport® :: USB-to-Serial Converters

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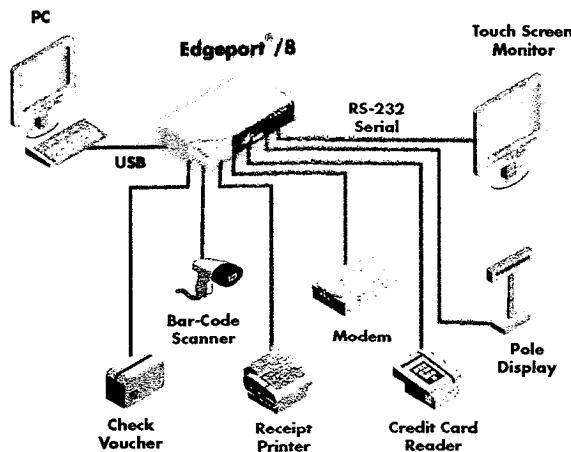
+

+ Features ::

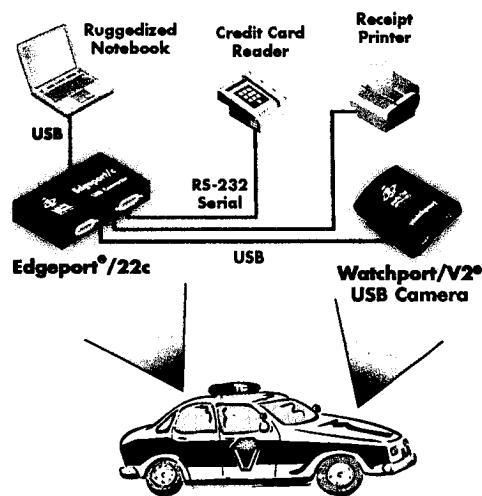
- Add up to 16 serial ports to a PC, thin client or server in minutes
- Unmatched OS support includes Windows NT/NT Embedded, Windows CE, Windows Server 2003, Windows 2000, Windows XP/XP Embedded, Windows 9x, Linux and Sun Solaris
- Multi-interface, software selectable RS-232/422/485 MEI, industrial, compact and metal versions
- Lower total cost of ownership with external, user-installable solution
- Ideal for point-of-sale, mobile computing, industrial automation, medical and more
- USB bus-powered; no power supply required on many models
- 5-year warranty



POS Connectivity



Mobile Computing



Edgeport® :: USB-to-Serial Converters

+ Specifications :: Continued

Edgeport Standard

- 1/2/4/8/16 RS-232 serial ports
- DB-9, DB-25 and RJ-45 connector options
- Models with on-board USB hub ship with external power supply

Edgeport Compact

- 2 models with DB-9 connectors
 - 2 RS-232 serial ports
 - 2 RS-232 serial, 2 USB ports
- Captive 2-meter cable for secure connection in rugged environments like mobile computing
- Smaller form factor and lower cost per port than standard Edgeport

Edgeport Industrial

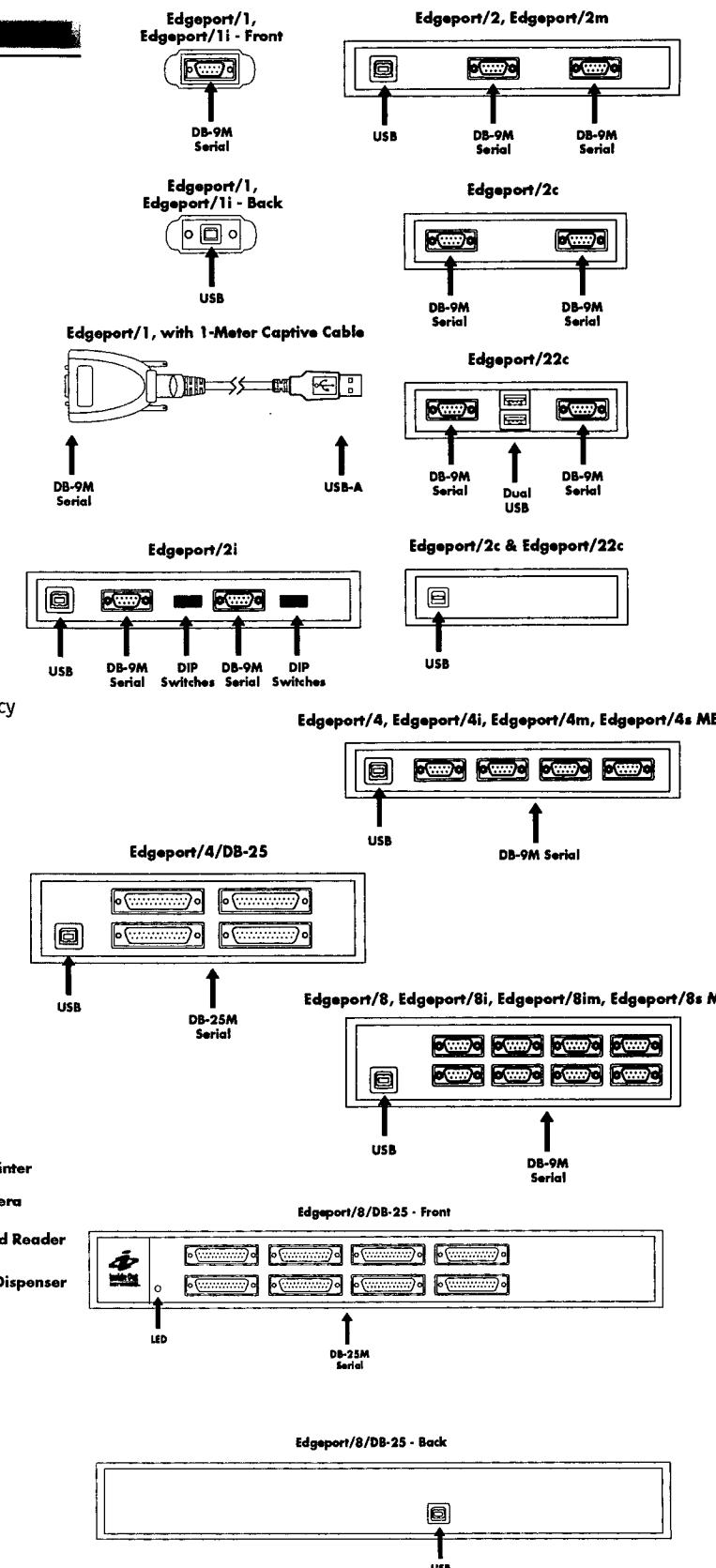
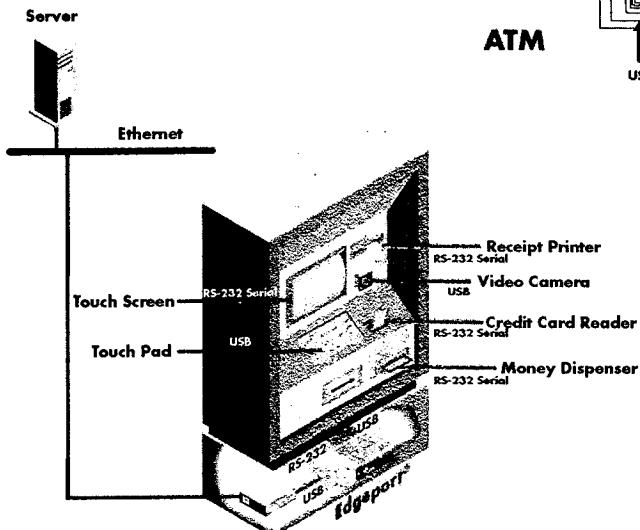
- 1/2/4/8 serial ports with DB-9 connectors
- RS-232/422/485 software selectable models

Edgeport Metal

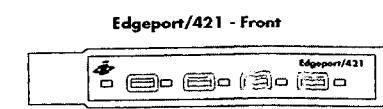
- 2/4/8 serial ports with DB-9 connectors
- Rugged aluminum chassis
- Detachable mounting brackets
- Designed for demanding environments like emergency vehicles and restaurant kitchens

Edgeport Multi-Interface

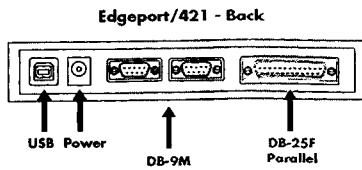
- 2 models with DB-9 connectors
 - 2 RS-232 serial; 1 parallel printer port
 - 4 USB, 2 RS-232 serial, 1 parallel printer port
- Ideal for workstations or thin clients



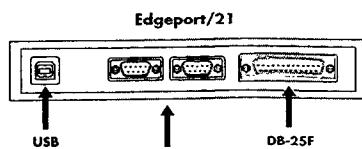
Edgeport® :: USB-to-Serial Converters



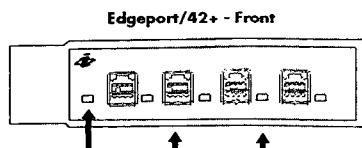
System Status LED
USB
Device Status LEDs



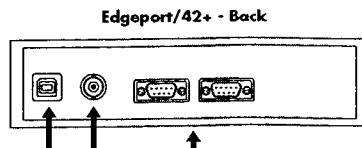
USB Power
DB-9M Serial
DB-25F Parallel



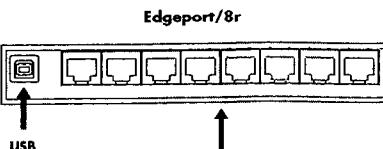
USB
DB-9M Serial
DB-25F Parallel



System Status LED
Powered USB
Device Status LEDs

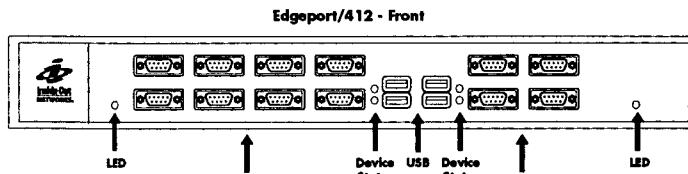


USB Power
DB-9M Serial

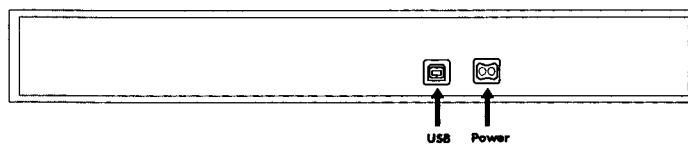


USB
RJ-45 Serial

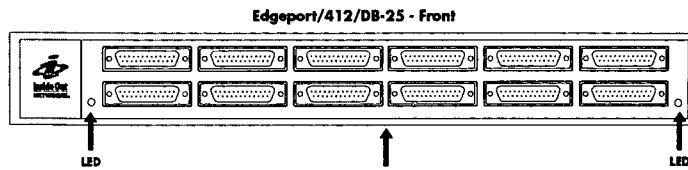
Unless otherwise indicated, each Edgeport (except Edgeport/1 and Edgeport/1i) includes one diagnostic LED on the front panel."



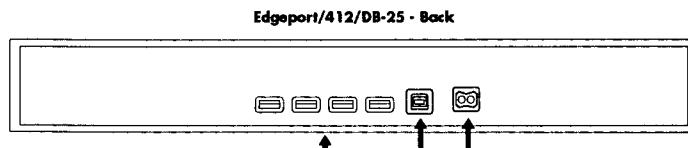
Device Status LEDs
USB
Device Status LEDs
DB-9M Serial



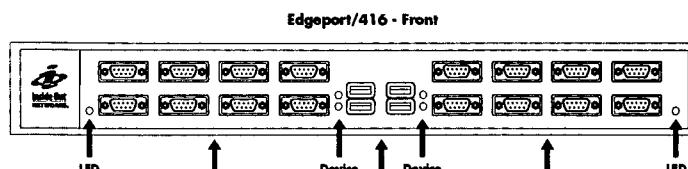
USB
Power



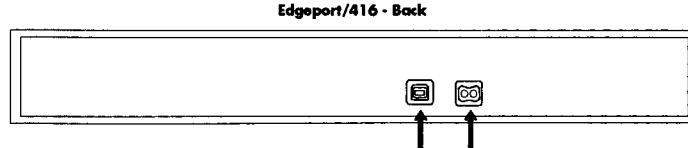
DB-25M Serial



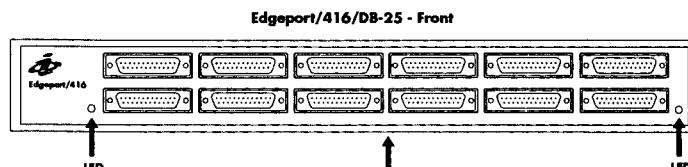
USB
Power



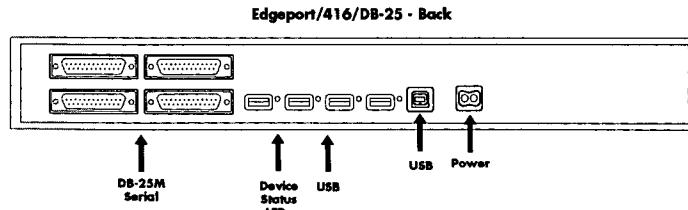
Device Status LEDs
USB
Device Status LEDs
DB-9M Serial



USB
Power



DB-25M Serial



DB-25M Serial
Device Status LEDs
USB
Power

Edgeport® :: USB-to-Serial Converters

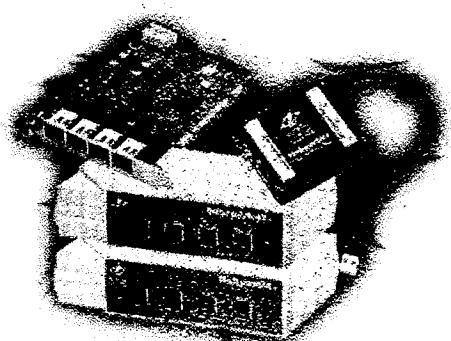
Part Numbers ::	North America	International
Model		
Edgeport Serial		
Edgeport/1 - 1 serial DB-9	301-1001-11	301-1001-11
Edgeport/1 12-Unit Bulk Pack (25 ea. 301-1001-11)	301-1001-11	301-1001-11
Edgeport/1 100-Bulk Pack (100 ea. 301-1001-11)	301-1001-22	301-1001-22
Edgeport/1 Captive Cable - 1 serial DB-9, attached 2m USB cable	301-1001-22	301-1001-22
Edgeport/2 - 2 serial DB-9	301-1000-02	301-1000-02
Edgeport/4 - 4 serial DB-9	301-1000-04	301-1000-04
Edgeport/4/DB-25 - 4 serial DB-25	301-1016-01	301-1016-01
Edgeport/4/2 - 4 USB, 2 serial DB-9	301-1016-01	301-1016-01
Edgeport/4/12/DB-25 - 4 USB, 12 serial DB-25	301-1016-12	301-2016-12
Edgeport/4/16 - 4 USB, 16 serial DB-9	301-1016-16	301-2016-16
Edgeport/4/16/DB-25 - 4 USB, 16 serial DB-25	301-1016-16	301-2016-16
Edgeport/8 - 8 serial DB-9	301-1016-08	301-1016-08
Edgeport/8/DB-25 - 8 serial DB-25	301-1016-08	301-1016-08
Edgeport/8t - 8 serial RJ-45	301-1016-08	301-1016-08
Edgeport Compact		
Edgeport/2c - 2 serial DB-9, captive 2m USB cable	301-1003-10	301-1003-10
Edgeport/2c ~ 2 serial DB-9, 2 USB, captive 2m USB cable	301-1003-10	301-1003-10
Edgeport Industrial		
Edgeport/1i - 1 RS-422/485 serial DB-9	301-1001-31	301-1001-31
Edgeport/2i - 2 RS-422/485 serial DB-9	301-1001-31	301-1001-31
Edgeport/2+2i - 2 RS-232 serial, 2 RS-422 serial DB-9	301-1022-04	301-1022-04
Edgeport/4i - 4 RS-422 serial DB-9	301-1000-28	301-1000-28
Edgeport/8i - 8 RS-422 serial DB-9	301-1000-28	301-1000-28
Edgeport/4s MEI - 4 RS-232/422/485 DB-9 software selectable	301-1002-98	301-1002-98
Edgeport/8s MEI - 8 RS-232/422/485 DB-9 software selectable	301-1002-98	301-1002-98
Edgeport Metal		
Edgeport/2m - 2 serial DB-9, metal chassis	301-1000-81	301-1000-81
Edgeport/4m - 4 serial DB-9, metal chassis	301-1000-81	301-1000-81
Edgeport/8m - 8 RS-422 serial DB-9, metal chassis	301-1000-81	301-1000-81
Edgeport Multi-Interface		
Edgeport/21 - 2 serial DB-9, 1 parallel	301-1000-21	301-1000-21
Edgeport/21 - 4 USB, 2 serial DB-9, 1 parallel	301-1000-21	301-1000-21

All cables and accessories: pg. 112.

- * See USB Plus Series for powered USB version.
- * Serial ports are RS-232 unless otherwise specified.
- * Bulk packs include one copy of software and documentation with limited use reproduction license.

USB Plus Series :: Powered USB

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+ Features ::

- Eliminates individual power supply bricks for USB peripheral devices
- Enables USB bus powering at higher voltage levels than standard USB
- Internal card and external hub solutions for easy application customization
- Supplies power and communication signals over hot-pluggable USB PlusPower cable
- Enables a low-cost, standard PC to become a high-performance retail system
- Cable locking mechanism ensures secure connections
- Compatible with standard and powered USB peripheral devices
- Power balancing technology provides maximum power to 12V and 24V peripherals, without exhausting the host PC's 5/12V power
- Compact hub available for space-prohibitive applications
- Hub available with two RS-232 serial DB-9 ports to connect powered USB, standard USB and legacy serial devices in a single box
- 5-year warranty

Overview :: USB PlusPower, or powered USB technology was developed as an alternative to externally powered USB devices. Its unique cabling allows higher power USB devices to receive power from the PC instead of external power supply bricks, maintaining the Plug and Play end user experience typical of USB connectivity. Our hub and card solutions offer an easy way to create cost-effective Point-of-Sale (POS) and Point-of-Care (POC) systems that can handle the additional power voltage required for USB devices such as printers, signature capture devices and bar-code scanners.

+ Specifications ::

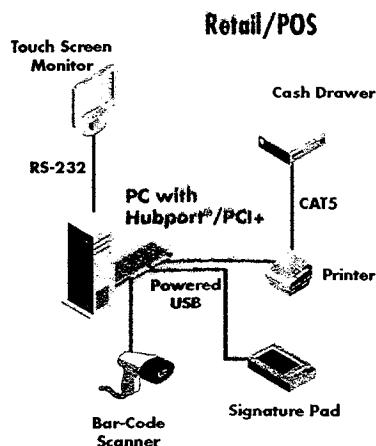
- Compatible with standard (type A) and USB PlusPower connectors
- Power balancing technology for efficient power management
- Port level power management on selected models
- Plug and Play
- Convection cooled design; no fans
- Full hardware and software flow control
- Meets power switching requirements of USB 1.1 specification
- Compatible with Windows Server 2003, Windows XP/XP Embedded, Windows NT/NT Embedded, Windows 2000/Me, Windows CE, Windows 9x

Hubport/PCI+

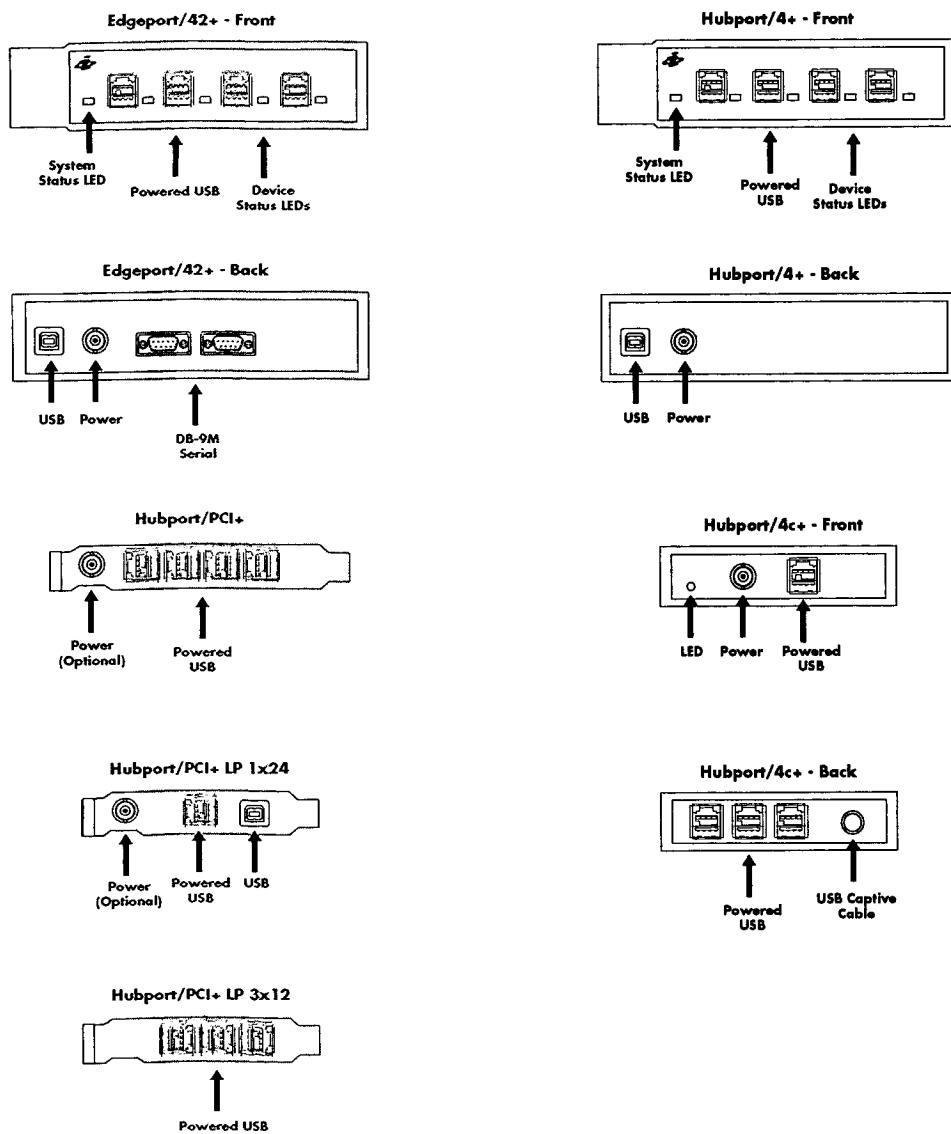
- Universal PCI (3.3V and 5.5V) card
- Full-sized or low-profile
- 4 powered USB ports
- Two-card low-profile solution
 - 3 x 12V card
 - 1 x 24V card
 - Cards may be linked or stand alone
- USB 2.0 compatible
- Baud rates to 480 Mbps
- Two power options
 - Full internal power
 - External power supply

Hubport/4+, Hubport/4c+, Edgeport/42+

- External to PC
- USB to 4 powered USB ports
- 2 RS-232 DB-9 serial ports (Edgeport/42+ only)
- Locking power connectors
- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Baud rates to 12 Mbps
- External power supply
- 10-inch (25.4 cm) captive cable (Hubport/4c+ only)
- Tri-state LED for device status and port activity



USB Plus Series :: Powered USB



To learn more about USB PlusPower technology, visit www.usbpluspower.org.

Part Numbers ::

North America International

Model

Edgeport/42+ - USB to 4-port powered USB hub; 2 serial DB-9; power supply	301-1000-01	301-1000-01
Hubport/4+ - USB to 4-port powered USB hub; power supply	301-1010-14	301-2010-14
Hubport/PCI+ - PCI to 4-port powered USB card; optional power supply sold separately	301-1149-01	301-1149-01
Hubport/PCI+ - PCI to 4-port powered USB card; internally powered	301-1150-01	301-1150-01
Hubport/PCI+ - PCI to 4-port powered USB card with external power supply	301-1151-01	301-1151-01
Hubport/PCI+ Power Supply - optional power supply for 301-1149-01	301-9007-01	301-9207-01
Hubport/4c+ - USB to 4-port powered USB compact hub	301-1170-01	301-1170-01
Hubport/PCI+ LP 1x24V - Low Profile PCI - 1 x 24V	301-1170-01	301-1170-01
Hubport/PCI+ LP 3x12V - Low Profile PCI - 3 x 12V	301-1172-01	301-2172-01
Hubport/PCI+ LP 1x24V w/PS - Low Profile PCI - 1 x 24V with power supply	301-1172-01	301-2172-01
Hubport/PCI+ LP 1x24V w/cable - Low Profile PCI - 1 x 24V with ribbon cable to 12V card	301-1172-01	301-2172-01

All cables and accessories: pg. 112.

Watchport®/V2 :: USB Camera

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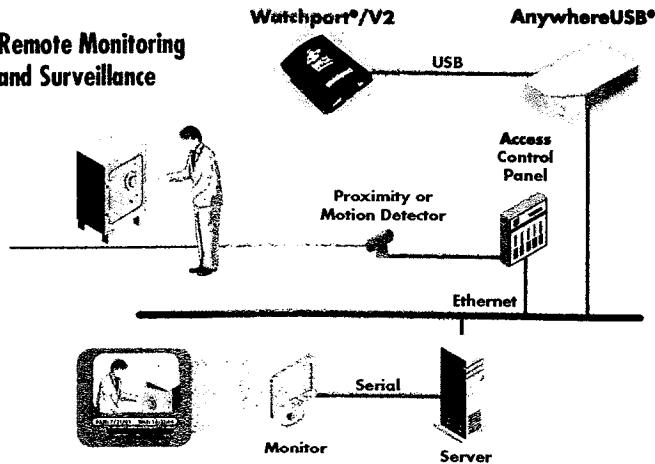
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+ Features ::

- Ideal for photo ID badging, kiosks, ATMs, access control and general surveillance
- Exceptional low light sensitivity
- Optional lens pack available
- Adjustable resolutions
- Compatible with TWAIN, DirectShow® and AVI
- Easy Plug and Play installation
- Only USB camera of its kind with Windows NT drivers
- Watchport Manager application software provides centralized camera status and allows easy integration of multiple Watchport/V2 cameras without additional software development
- Motion detection software available to create cost-effective remote monitoring system (see page 79)
- 5-year warranty

Remote Monitoring and Surveillance



Overview :: Watchport/V2 is a high performance USB camera designed for mission-critical enterprise applications such as kiosks, ATMs, point-of-sale, building automation/security and mobile computing. The first USB webcam with Windows NT drivers, Watchport/V2 offers exceptional low light sensitivity (<1 lux) and enhanced resolution to deliver optimum picture quality. An optional lens kit and motion detection software are available for complete customization. Watchport/V2 is USB powered and offers Plug and Play installation for easy integration into any new or existing application.

+ Specifications ::

- Low light sensitivity: <1 lux
- Adjustable resolutions
 - 1280 x 960 (software enhanced)
 - 640 x 480
 - 320 x 240
 - 160 x 120
 - 352 x 288
 - 176 x 144
 - 128 x 96
- Maximum frame rate of 30 fps at all resolutions
- Removable 4.9mm lens; F:2.0 adjustable
- Optional lens pack available
 - 3 mm wide angle
 - 8 mm close-up
 - 12 mm telephoto
- Exposure controls
 - Manual and automatic gain and shutter control
 - Automatic white balance (AWB)
 - Manual color balance
 - Color saturation
- Color formats: 16.8 million TrueColor (24-bit RGB), RGB555
- Motion JPEG compression
- Sensor: color CCD
- Scan frequencies: 60, 50, 30, 25, 15, 12.5, 7.5, 6.25 and 4 Hz
- Shutter rate controls: 1/4 second to over 1/30,000 second
- Compatible with Windows XP/XP Embedded, Windows NT 4.0/NT Embedded, Windows 2000/Me, Windows Server 2003

Check out our online demo:
www.digi.com/wpdemo

Part Numbers ::

North America International

Model	Part Number	Part Number
Watchport/V2 USB Camera	301-9010-01	301-9010-01
Watchport/V USB Camera Lens Pack - 3 mm wide angle, 8 mm close-up, 12 mm telephoto	301-9015-01	301-9015-01
Watchport Sentry Software License - single camera per host	301-9026-01	301-9026-01
Watchport Console Software License - 2 cameras per host	301-9027-01	301-9027-01
Watchport Console Extra Licenses - for additional console connections	301-9028-01	301-9028-01
Watchport/V Wall Mount	301-9018-01	301-9018-01
Watchport/V Clamp Mount	301-9019-01	301-9019-01

All cables and accessories: pg. 112.

Watchport® Sensors :: USB Sensors

Overview :: The Watchport Series includes the first complete line of Plug and Play USB sensors for environmental monitoring. Choose from sensors for proximity, humidity/temperature, distance, acceleration/tilt, water and temperature. Watchport Manager application software provides centralized device status and historical data logging, and allows the easy integration of multiple Watchport devices without additional software development. Creating a made-to-order monitoring system with Watchport sensors can preempt damage to equipment and facilities and also reduce costly system downtime and maintenance.

+ Features ::

- Ideal for remote monitoring in POS (kiosks, ATMs), medical, data center and other security applications
- Easy to install and configure
- Includes USB base, sensing device and Watchport Manager software
- Extend distance between sensor and host with CAT5 cable
- Remotely monitor and configure over an IP network with AnywhereUSB®
- API available for application software development
- Compatible with Windows operating systems
- 5-year warranty

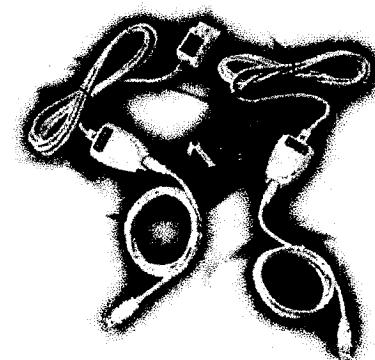
+ Specifications ::

Watchport/H Humidity/Temperature Sensor

- Collects both relative humidity (RH) and temperature data
- Temperature compensated RH readings
- Configurable Watchport Manager alarm thresholds
- ASCII command interface
- RH accuracy: +/- 5% at 0-90% non-condensing;
+/- 8% over 90%
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

Watchport/P Proximity Sensor, Watchport/D Distance Sensor

- Photo-electric sensor with hardware controlled sensitivity
- Reports proximity event (Watchport/P) or object distance (Watchport/D)
- Enables system event triggering with Watchport Manager
 - Automatic log-off
 - Automatic system lock
 - Run user-selectable files such as screen savers, batch files, scripts and executables



+ Specifications :: Continued

- Detection range 1.6 to 4.9 ft (0.5 to 1.5 m)
- Maximum reading rate: 3 per second
- Response delay: <5.0 ms (typical)
- Power consumption: 70 mA (max)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

Watchport/T Temperature Sensor

- Configurable Watchport Manager alarm thresholds
- ASCII command interface
- Temperature resolution: 0.1° C
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

Watchport/W Water Detector

- 2 gold plated pins detect wetness on a non-conductive surface
- Binary output with "Wet" or "Dry" readings
- Waterproof enclosure
- Maximum reading rate: 5 per second
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 1,000 ft (304.8 m)

Watchport/A Accelerometer/Tilt Sensor

- Dual axis accelerometer
- Measures dynamic acceleration or tilt
- Acceleration from -2g to 2g

Part Numbers ::

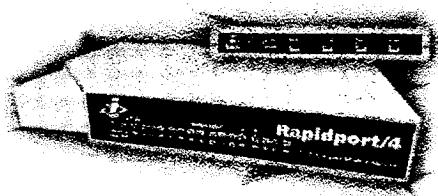
North America International

Model	North America	International
Watchport/H - humidity & temperature sensor	301-1141-01	301-1141-01
Watchport/P - proximity sensor	301-1143-01	301-1143-01
Watchport/T - temperature sensor	301-1144-01	301-1144-01
Watchport/W - water detector	301-1145-01	301-1145-01
Watchport/D - distance sensor	301-1146-01	301-1146-01
Watchport/A - accelerometer	301-1147-01	301-1147-01

All cables and accessories: pg. 112.

Rapidport/4® :: USB Modem Bank

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Overview :: Rapidport/4 offers an easy solution for remote access via Plug and Play USB connectivity. This external, user-installable solution plugs into the USB port of a PC, thin client or server and provides four 56K V.92 modems. The Rapidport/4 gives network users access to Internet Service Providers (ISPs), fax, and other group dial-up applications supported by Windows operating systems.

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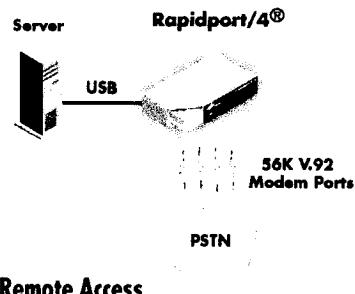
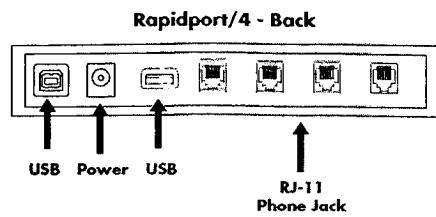
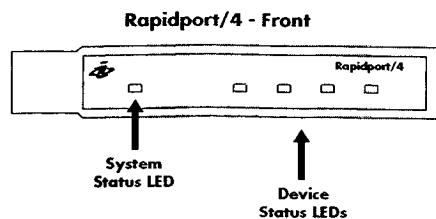
+ Features ::

- Add four 56K V.92 modems to a PC, server or thin client in minutes
- Pool existing modem lines
- Give network users access to ISP, fax and other group dial-up applications supported by Windows operating systems
- Broad homologation – approved for use in most countries
- Lower total cost of ownership with user-installable, external solution
- On-board USB hub to stack and daisy-chain up to five Rapidport/4 units per host
- 5-year warranty

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+ Specifications ::

- 4 56K modems with RJ-11 connectors
- Modem standards
 - Data 56K V.92, V.90 and enhanced V.34
 - Error correction: V.42
 - Data compression: MNP® Class 5; V.42bis
 - Fax: V.17, Group 3, Class 1 and 2
- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Plug and Play
- On board USB hub (type A downstream connector)
 - Stack and daisy-chain up to five Rapidport/4 units
 - Connect Edgeport USB-to-serial converter for serial device connectivity
- Front panel LEDs display modem and hub status
- No additional IRQ or memory address requirements
- Broad homologation
- Includes 1-meter USB cable and power supply
- Compatible with Windows Server 2003, Windows XP/XP Embedded, Windows NT/NT Embedded, Windows 2000/Me, Windows CE, Windows 9x and Linux



Remote Access

Part Numbers ::

North America International

Model

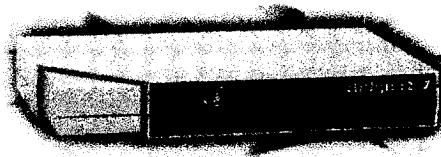
Rapidport/4 - USB to 4 56K V.92 modems, RJ-11
Rapidport/4 Dual Unit - 2 Rapidport/4 units

301-1012-06 301-1012-04
301-1012-08 301-2012-08

All cables and accessories: pg. 112.

Hubport® :: Industrial USB Hubs

Overview :: The Hubport is an industrial-grade solution for adding USB ports to a PC or server. Available in four- and seven-port AC or DC powered models, the Hubport can be used to connect USB peripheral devices, or to stack and power any of our USB solutions.



+ Features ::

- Add USB ports to a PC, server or thin client in minutes
- Easily connect and power USB peripheral devices
- DC powered models can be used with alternative power sources such as 12V or 24V vehicle batteries for mobile applications
- Maximum transfer rate on all ports simultaneously
- Locking power connector for solid power connection in environments with high vibration or other incidental contact (Hubport/7)
- Individual port power management
- Also available in USB PlusPower (powered USB) models – see USB Plus Series on page 70
- 5-year warranty

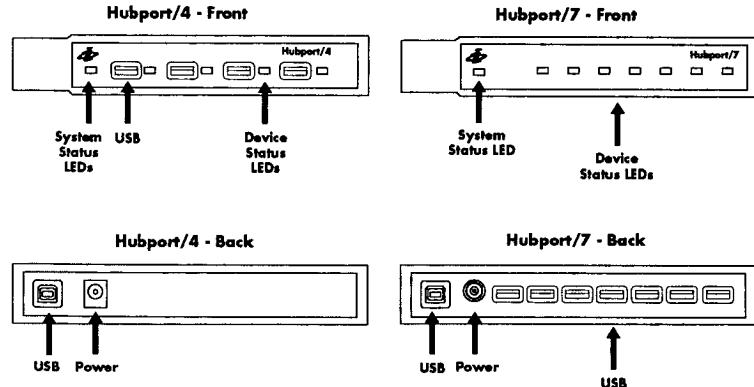
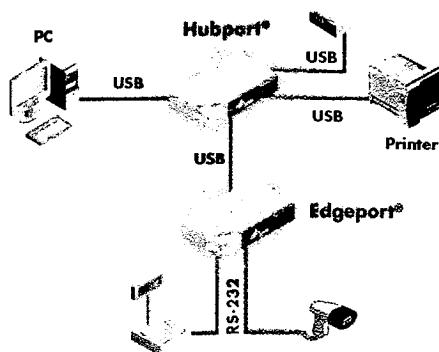
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+ Specifications ::

- 4/7 downstream USB ports
- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- No additional IRQ or memory address requirements
- 500 mA downstream power available per port
- Models with variable DC input power from 10-26 volts
- LEDs for system power and port status
 - Hubport/4: 5 LEDs
 - Hubport/7: 8 LEDs
- Baud rate: up to 12 Mbps per port
- Plug and Play
- Hot-swappable
- Includes 1-meter USB cable and power supply
- Compatible with Windows, Linux and other operating systems

+

USB Expansion



Part Numbers ::

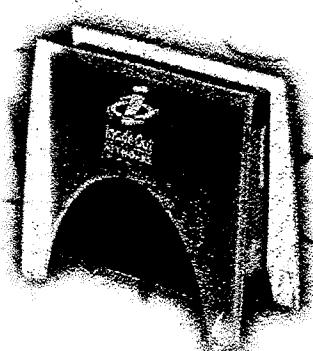
North America International

Model	Part Number	Part Number
Hubport/4 - 4-port USB hub	301-1010-07	301-1010-07
Hubport/4 DC - 4-port USB hub with DC input power	301-1010-30	301-1010-30
Hubport/7 - 7-port USB hub	301-1010-07	301-1010-07
Hubport/7 DC - 7-port USB hub with DC input power	301-1010-70	301-1010-70

All cables and accessories: pg. 112.

Wavespeed®/LAN :: USB-to-802.11b WLAN

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Overview :: Wavespeed/LAN is a USB-to-802.11b wireless LAN adapter. It offers an easy solution for adding a PC, laptop or thin client to the LAN. This external alternative to a NIC card reduces the costs and hassles of implementing a wired connection to the LAN, without sacrificing performance.

+

+ Features ::

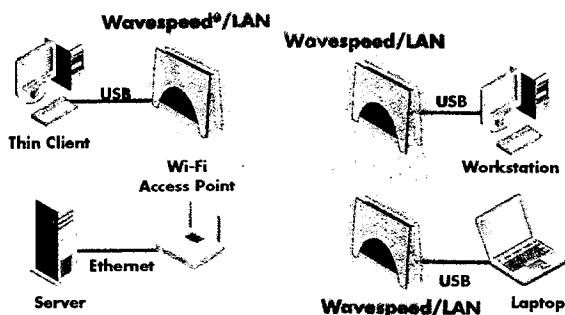
- Eliminates costs and hassles of implementing a wired network - without sacrificing performance
- Communication via access point or peer-to-peer mode
- Powered by USB bus - no external power supply required
- 64-bit and 128-bit WEP encryption for secure data transfer
- Comprehensive OS support includes Windows NT/NT Embedded, Windows XP/XP Embedded, Windows Server 2003, Window 2000/Me and Windows 9x
- 5-year warranty

+

+ Specifications ::

- IEEE 802.11b compliant
- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Plug and Play
- Direct Sequence Spread Spectrum (DSSS)
- 64-bit and 128-bit WEP encryption
- 11 channels
- Data rate: Auto, 1, 2, 5.5 and 11 Mbps
- Modulation
 - DPSK at 11 Mbps
 - DQPSK at 2 Mbps
 - CCK at 5.5 and 11 Mbps
- Frequency: 2.4 to 2.48 GHz
- Bit error rate: 1E-5 at -83 dBm
- 100mW transmit power output
- Output power: 12 dBm typical
- Receiver sensitivity: -80 dBm minimum
- Current drain (typical): Transmit 480 mA; Receive 350 mA
- Coverage area indoors (close space)
 - 165 ft (50 m) at 11 Mbps
 - 265 ft (100 m) at 5.5 Mbps
- Coverage area outdoors
 - 500 ft (150 m) at 11 Mbps
 - 1,000 ft (300 m) at 5.5 Mbps
- Internal antenna
- Communication via access point or peer-to-peer mode
- LEDs for power status and link activity
- Field-upgradeable
- Includes 1-meter USB cable

Wireless Networking



See page 87 for Wavespeed/S Bluetooth wireless serial adapters.

Part Numbers ::

North America International

Model

Wavespeed/LAN - USB-to-802.11b WLAN

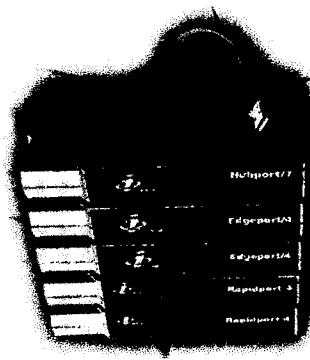
301-1117-01

All cables and accessories: pg. 112.

EdgeUSB® :: Windows NT Software Stack

Overview :: All USB solutions from Digi and Inside Out Networks include drivers that enable them to work with Windows NT and Windows NT Embedded systems. In addition, we offer the EdgeUSB software stack, which may be licensed by developers, integrators, and peripheral device manufacturers who wish to add Windows NT compatibility to a USB device for large-scale installations (typically 1,000+ seats).

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+ Features ::

- First and only USB software stack for Windows NT/NT Embedded that supports Windows Driver Model (WDM) driver architecture
- Provides binary compatibility with the USBDI interface supplied by Microsoft in Windows 95, Windows 98, Windows 2000 and Windows XP
- Permits existing WDM USB drivers to run on Windows NT with little or no modification
- Supports OHCI and UHCI host controllers, and up to 5 levels of hubs
- Field-tested compatibility with hundreds of desktop and mobile platforms
- Shipping since 1998 in thousands of installations – a robust, field-proven solution
- Successfully implemented in USB devices such as bar-code scanners, fingerprint readers, scanners and cameras

+

+ Specifications ::

- Full hot-swap Plug and Play support
- Compatible with USB v1.1 spec
- High performance (faster than Windows 98 stack)
- WDM USB drivers for Windows 95/98/2000 require little or no source code changes
- Supports USB 1.1 spec
- Complete Plug and Play functionality
 - Hot-insertion of devices
 - Hot-removal of devices (even while application has device open)
 - Dynamic loading and unloading of drivers
 - Initial installation of driver stack without rebooting
- Implements binary-compatible subset of Microsoft USBDI interface
 - Binary-compatible IRP (I/O Request Packet) parameter/request values
 - Binary-compatible URB (USB Request Block) structures and parameter/request values
 - Binary-compatible USBDLIB library functions
- Implements binary-compatible subset of Microsoft WDM Plug and Play interface
- Supports control, bulk and interrupt transfer types.
- Fully interrupt-driven for high performance
- Supports unlimited number of concurrent overlapped requests from multiple drivers simultaneously
- Supports unlimited number of host controllers, hubs, devices and client drivers
- Optional user-mode background service can call user-mode DLLs on device insertion and/or removal
- Optional user-mode system tray applet for status and troubleshooting
- In many cases can run unmodified WDM driver binaries



Part Numbers ::

Worldwide

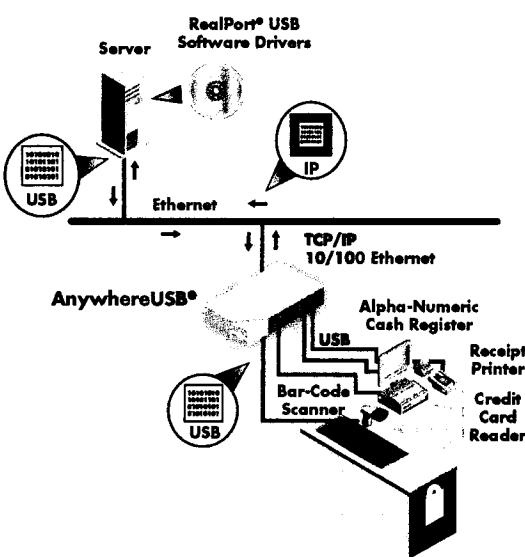
Model	EdgeUSB Software Stack License	Order #
EdgeUSB Software Stack License	EDG-USB-LIC	EDG-USB-LIC

RealPort® USB (USB Over IP®) :: Management Tools/Special Features

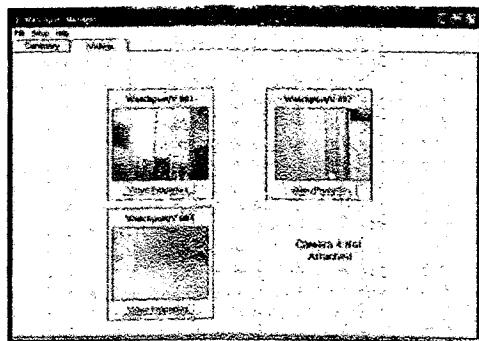
Overview :: USB technology is a no-hassle, cost-effective alternative to PCI or ISA bus expansion for peripheral device connectivity. One characteristic of USB connectivity that can pose a challenge, particularly for retail/POS and building automation/security applications, is its cabling distance limitation of five meters (16.4 feet).

Digi and Inside Out Networks addressed this limitation by developing patented RealPort USB technology. The software "encapsulates" data from a USB device, enabling it to travel between a locally attached peripheral device and a remotely attached host PC over a standard TCP/IP network. The relocation of the main PC to a remote location not only saves space, but also allows devices to be placed in harsh environments or in non-secure areas.

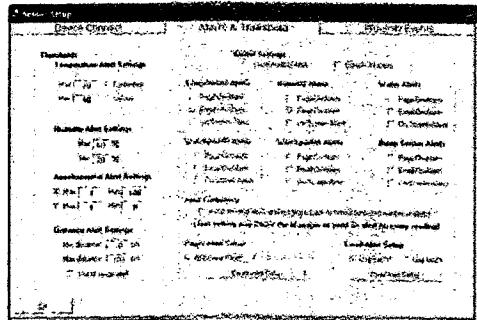
RealPort USB software is included with the AnywhereUSB® network-enabled USB hub (see page 67).



Watchport® Manager :: Management Tools/Special Features



Multi-camera monitoring



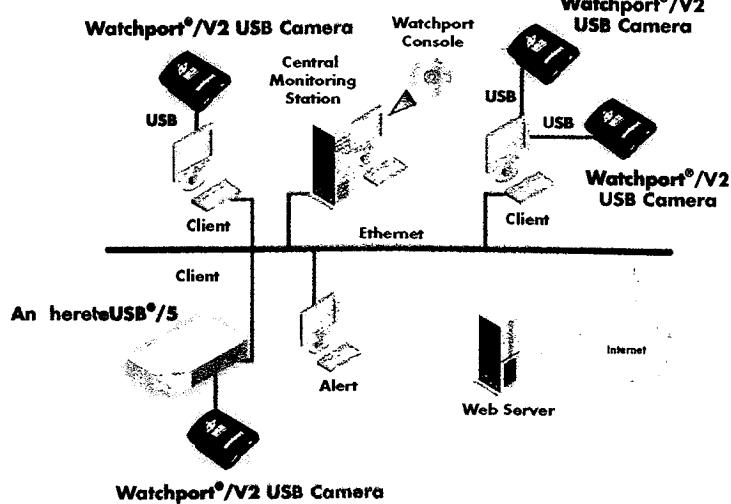
Alerts and thresholds

Overview :: Creating a 24/7 made-to-order remote monitoring system is easy with Watchport Manager application software, which is included with each Watchport Sensor and Watchport/V2 USB camera. The application possibilities are almost endless. Monitor temperature and humidity levels in a server room; detect the presence of water in an ATM; activate an information kiosk monitor when a shopper is nearby; or protect confidential information by automatically ending a session at a human resources kiosk when the user is no longer detected.

+ Features ::

- Centralized device status
- Historical data logging
- User-defined alarm thresholds
- Pager, email and onscreen alarms for remote monitoring
- Easy integration of multiple sensors without additional software development
- Minimizes into system tray to save screen space
- Free with all Watchport camera and sensor solutions

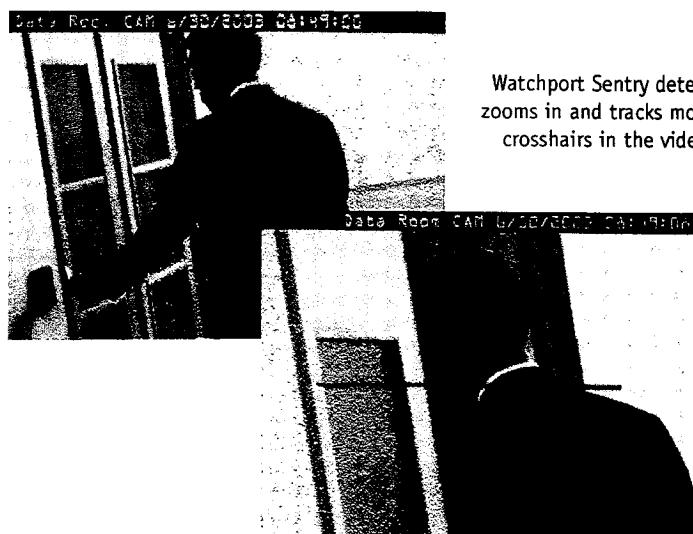
Watchport® Motion Detection Software :: Management Tools/Special Features



Overview :: Digi makes it easy to create a remote monitoring system to protect an office, warehouse, data room, gas pump, cash register, parking lot or other property. Watchport/V2 plus Watchport Sentry (single camera per host) or Watchport Console (multiple cameras per host) motion detection software offers a cost-effective alternative to CCTV and other remote surveillance solutions.

+ Features ::

- Sensitivity controls and user-defined masks eliminate spurious motion detection; compensate for changes in lighting
- Instant playback allows user to review motion captured on a given day
- Automatic zoom
- Automated image archiving or deletion
- Motion map feature displays summary of motion over time
- Time lapse or webcam mode allows user to schedule operating periods for specific times and days of the week
- Name, time and date stamping of recorded images
- Image encryption to detect tampering



Watchport Sentry detects motion, zooms in and tracks movement with crosshairs in the video window.

Part Numbers ::

North America International

Model

Watchport Sentry Software License - single camera per host	301-9026-00
Watchport Console Software License - 2 cameras per host	301-9027-01
Watchport Console Extra License - for additional Console connections	301-9029-01

301-9026-00

301-9027-01

301-9029-01

Wireless

Cellular, Bluetooth® and Wi-Fi

Digi offers unique best of breed wireless solutions that utilize cellular, Bluetooth and Wi-Fi (802.11x) technologies. This product range offers the flexibility and scalability required for mission-critical enterprise applications.

Cellular

More customers than ever now require that not only the devices in their central data center be connected, but also devices at remote locations. We have identified this new space as Remote Device Management and now offer a suite of hardware and software solutions utilizing GSM and CDMA cellular networks. Benefits of wireless communications include instant deployment, elimination of wiring costs and problems due to wire breaks, the ability to traverse firewalls, and the ability to move the connection virtually anywhere.

Bluetooth

Bluetooth wireless technology is ideal for applications where cabling may be impractical. The focus can be on close range connections (up to 10 meters) between portable devices such as a PDA and a cell phone, or longer range (up to 100 meters) for applications where longer cabling may be impractical. No access point is necessary for many Bluetooth applications, as the devices communicate directly over a virtual wire. This leads to a more ad-hoc approach to connecting devices based on resources available rather than specific network log on capabilities that are common in Wi-Fi.

Wi-Fi

Wi-Fi is a broad, LAN/WAN based protocol that allows devices to connect to a larger network. It enables a device (like a PC) to connect to other devices through a networking protocol such as TCP/IP. The focus is on wire-free connections to business networks, allowing a user to log on and use the resources of that network through a connected "access point." Typical connections are within 300 feet.

What do you need to do?

- + Create a truly diverse backup WAN using wireless/cellular technology **Digi Connect WAN**
- + Connect to a remote serial device via serial-to-cellular technology **Digi Connect RG**
- + Replace serial cables with a Bluetooth wireless connection **Wavespeed/S**
- + Add embedded 802.11b wireless connectivity to an electronic device **Digi Connect Wi-ME/Wi-EM**
- + Connect RS-232/422/485 serial devices to a wireless network **PortServer TS W MEI**
- + Add wireless networking with product integration flexibility **Digi Connect Wi-SP**
- + Network a PC that does not have a NIC card or empty card slot **Wavespeed/LAN**
- + Manage and configure groups of devices across remote networks **Digi Connectware Manager**

+ Wireless – Cellular, Bluetooth and Wi-Fi

Cellular

- Digi Connect[®] WAN pg. 85
- Digi Connect[®] Remote Gateway pg. 86

External Bluetooth

- Wavespeed[™]/S pg. 87

Embedded 802.11b

- Digi Connect[®] WI-ME pg. 88
- Digi Connect[®] WI-EM pg. 88

External 802.11b

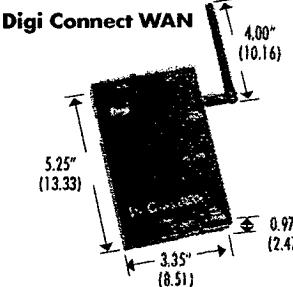
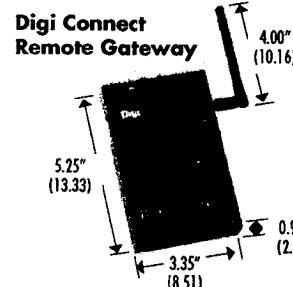
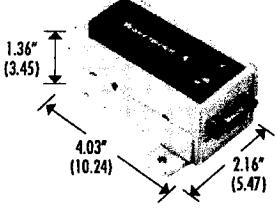
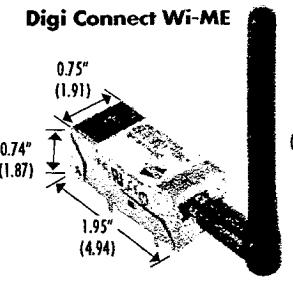
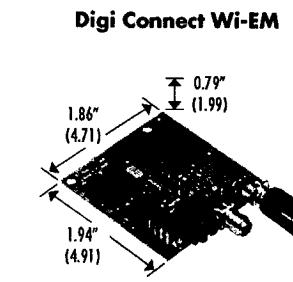
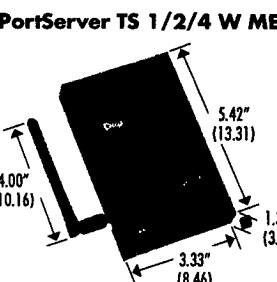
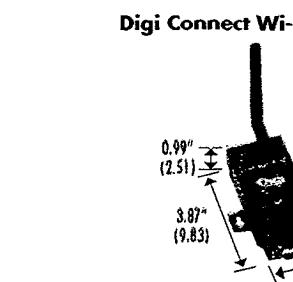
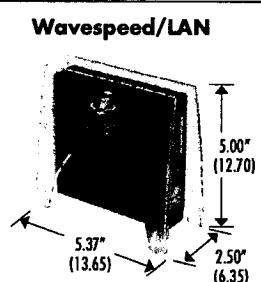
- PortServer[®] IS-W-MB pg. 88
- Digi Connect[®] WI-SP pg. 88
- Wavespeed[™]/LAN pg. 88

Management Tools and Special Features

- Digi Connectware[®] Manager pg. 89

	Remote Wireless/Cellular	Digi Connect WAN	Digi Connect Remote Gateway	External Bluetooth	Wavespeed/S	External 802.11b	PortServer TS W MEI	Digi Connect Wi-SP
Wireless Features Chart	10/100Base-T	•	•			•		
802.11b						•		•
WPA2/802.11i								•
Bluetooth				•				
Cellular (GSM/CDMA)	•	•						
Serial Ports	1	1		1		1/2/4		1/2
Serial Type	RS-232	RS-232/ 422/485		RS-232		RS-232/ 422/485		RS-232/ 422/485
Serial Connector	DB-9	DB-9		DB-9		RJ-45		DB-9
Max. Serial Rate	230 Kbps	230 Kbps		115 Kbps		115 Kbps		230 Kbps
External Antenna	•	•				•		•
Internal Antenna				•				
HTTP	•	•				•		•
HTTPS	•	•				•		•
SSL/TLS Encryption (DES/3DES/AES)	•	•				•		•
Other Encryption				•		•		•
COM/TTY Driver		RealPort with Encryption		N/A		RealPort with Encryption		RealPort with Encryption (-S Models)
Special Features	<ul style="list-style-type: none"> • Ethernet-to-cellular • GSM GPRS/EDGE or CDMA 1xRTT • Integrates with Digi Connectware Manager 	<ul style="list-style-type: none"> • Serial-to-cellular • GSM GPRS/EDGE or CDMA 1xRTT • Integrates with Digi Connectware Manager 		<ul style="list-style-type: none"> • Can be powered via 5-30VDC for mobile applications 				<ul style="list-style-type: none"> • Integration and Development Kits available

	Wavespeed/LAN	Embedded 802.11b	Digi Connect Wi-EM	Digi Connect Wi-ME
10/100Base-T	•			
802.11b	•		•	•
WPA2/802.11i			•	•
Bluetooth				
Cellular (GSM/CDMA)				
Serial Ports	0		2	1
Serial Type	N/A		TTL	TTL
Serial Connector	N/A		TTL	TTL
Max. Data Rate	11 Mbps		230 Kbps	230 Kbps
External Antenna			•	•
Internal Antenna	•			
HTTP	•		•	•
HTTPS			•	•
SSL/TLS Encryption (DES/3DES/AES)			•	•
Other Encryption	•		•	•
COM/TTY Driver	N/A		RealPort with Encryption	RealPort with Encryption
Special Features	<ul style="list-style-type: none"> • 1 USB port • USB powered 		<ul style="list-style-type: none"> • Integration and Development Kits available 	<ul style="list-style-type: none"> • Integration and Development Kits available

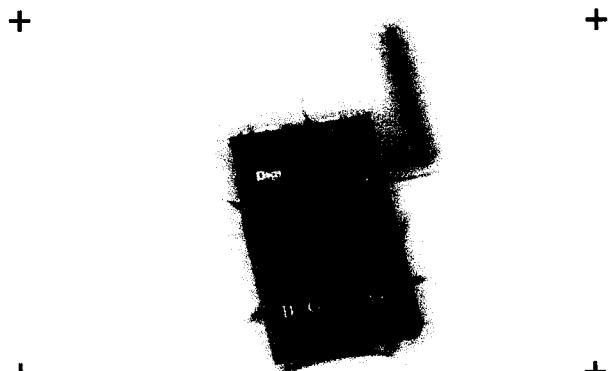
 <p>Digi Connect WAN</p> <p>5.25" (13.33) x 3.35" (8.51) x 0.97" (2.47)</p> <p>4.00" (10.16)</p>	 <p>Digi Connect Remote Gateway</p> <p>5.25" (13.33) x 3.35" (8.51) x 0.97" (2.47)</p> <p>4.00" (10.16)</p>	 <p>Wavespeed/S</p> <p>1.36" (3.45) x 4.03" (10.24) x 2.16" (5.47)</p>
 <p>Digi Connect Wi-ME</p> <p>0.75" (1.91) x 0.74" (1.87) x 1.95" (4.94)</p> <p>4.25" (10.80)</p>	 <p>Digi Connect Wi-EM</p> <p>1.86" (4.71) x 1.94" (4.91) x 0.79" (1.99)</p> <p>4.25" (10.80)</p>	 <p>PortServer TS 1/2/4 W MEI</p> <p>5.42" (13.31) x 4.00" (10.16) x 3.33" (8.46)</p> <p>1.31" (3.33)</p>
 <p>Digi Connect Wi-SP</p> <p>0.99" (2.51) x 3.87" (9.83) x 1.68" (4.27)</p>	 <p>Wavespeed/LAN</p> <p>5.00" (12.70) x 5.37" (13.65) x 2.50" (6.35)</p>	

Measurements: inch
 (cm)

See pages 110-112 for accessories and page 117 for antennas.

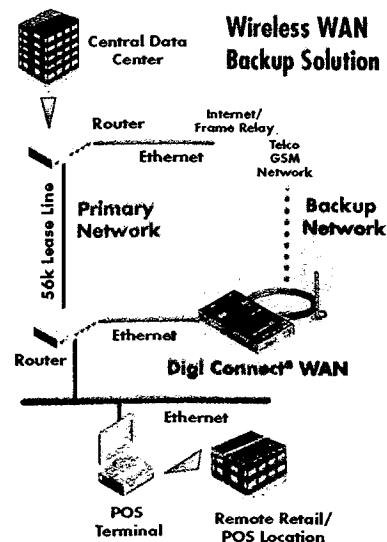
Digi Connect® WAN :: Ethernet-to-Cellular Gateway/Router

Overview :: Digi Connect WAN provides an alternative to traditional wired TCP/IP Wide Area Networks (WANs). It utilizes global wireless cellular technology (GSM GPRS/EDGE or CDMA 1xRTT) to create primary and backup network connectivity for easy remote device management. Digi Connect WAN offers an easy and cost-effective means of connecting virtually any remote location or device into the corporate IP network.



+ Features ::

- High-speed Ethernet-to-cellular gateway/router
- Quadband GSM GPRS/EDGE or CDMA 1xRTT interface for global usage
- Unique Digi SureLink™ “always-on” connection for rapid on-demand connections
- 10/100Base-T Ethernet for direct IP connection to WAN port on existing router
- 9-30VDC for diverse power input
- Web interface for easy centralized console configuration and statistics
- Up to 256-bit AES security provides encryption and authentication for management communications via Digi Connectware Manager (see page 89)
- Includes four-inch 50 ohm swivel dipole antenna
- Ideal for use where wired networks (e.g., lease line/frame relay, CSU/DSU, fractional T1) are not feasible or where alternative network connections are required
- 5-year warranty



+ Specifications ::

Ethernet Interface

- 10/100Base-T RJ-45 connector

Serial Interface

- 1 RS-232 DB-9M

• Throughput up to 230 Kbps

• Hardware and software flow control

RF Features (GSM and CDMA Models)

- RF antenna connector: 50 Ohm SMA
- Swivel dipole antenna

RF Features (GSM Model Only)

- Network: Quadband 1900/850 and 1800/900 MHz GSM
- GPRS/EDGE

• EDGE class 10, GPRS class 12

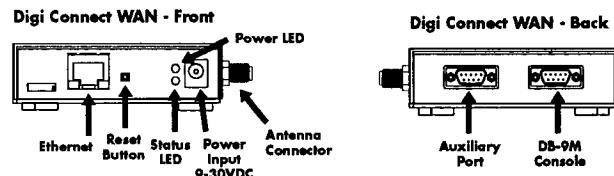
• Throughput: Up to 240 Kbps, 100-130 Kbps typical

RF Features (CDMA Model Only)

- Network: 800 MHz CDMA cellular, 1900 MHz CDMA PCS
- 1xRTT
- Throughput: Up to 153 Kbps, 60-80 Kbps typical

Other Features

- Operating temperature: -30° C to +60° C (-22° F to +140° F)
- NAT
- Port forwarding
- VPN client, VPN pass-through
- Access control lists (IP filtering)
- HTTP for web management
- Optional secure enterprise management via Digi Connectware Manager
- SSL, SSH v2, FIPS 197



Part Numbers ::

Model

Digi Connect WAN GSM with Antenna

Digi Connect WAN CDMA with Antenna

Extended Temperature Power Supply

North America International

DC-WAN-GE10A DC-WAN-GE10A-W

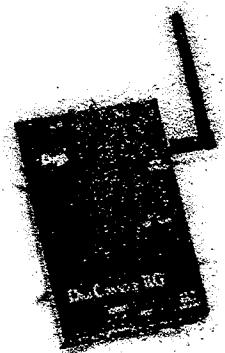
DC-WAN-S1XA DC-WAN-S1XA-W

76000717

76000717

Digi Connect® Remote Gateway (RG) :: Serial-to-Cellular Gateway

+



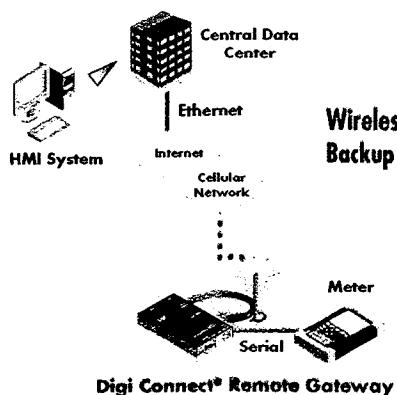
+

Overview :: Digi Connect RG utilizes wireless cellular networks (GSM GPRS/EDGE or CDMA 1xRTT) to connect virtually any RS-232/422/485 serial device to TCP/IP networks. It allows remote devices to communicate easily and cost-effectively to a central office through standard TCP/UDP communications or RealPort®.

+

+ Features ::

- High-speed serial-to-cellular network connectivity
- Quadband GSM GPRS/EDGE or CDMA 1xRTT interface for global usage
- Easy to deploy and move virtually anywhere
- Eliminates wiring costs and problems due to wire breaks
- 9-30VDC for diverse power input
- TCP/UDP socket services
- Patented Digi RealPort COM port redirector
- Supports static/dynamic and public/private IP addresses
- Web and central console configuration
- Unique Digi SureLink™ "always-on" connection for rapid on-demand connections
- Integrates with Digi Connectware® Manager for easy device connectivity and management (see page 89)
- Up to 256-bit AES security provides encryption and authentication for management communications via Digi Connectware Manager
- Includes four-inch 50 ohm swivel dipole antenna
- Applications include utilities, IA, financial, retail/POS or any industry requiring portable IP connections
- 5-year warranty



Digi Connect® Remote Gateway

+ Specifications ::

Ethernet Interface

- 10/100Base-T RJ-45 connector

Serial Interface

- 1 RS-232/422/485 DB-9M

• Throughput up to 230 Kbps

• Hardware and software flow control

RF Features (GSM and CDMA Models)

- RF antenna connector: 50 Ohm SMA

• Swivel dipole antenna

RF Features (GSM Model Only)

- Network: Quadband 1900/850 and 1800/900 MHz

• GSM GPRS/EDGE

• EDGE class 10, GPRS class 12

• Throughput: Up to 240 Kbps, 100-130 Kbps typical

RF Features (CDMA Model Only)

- Network: 800 MHz CDMA cellular, 1900 MHz CDMA PCS

• 1xRTT

• Throughput: Up to 153 Kbps, 60-80 Kbps typical

Other Features

• Operating temperature: -30° C to +60° C (-22° F to +140° F)

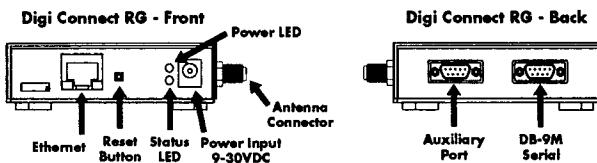
• Access control lists (IP filtering)

• HTTP for web management

• Optional secure enterprise management via Digi Connectware Manager

• SSL, SSH v2, FIPS 197 (serial connection)

See website for complete specifications.



Part Numbers ::

North America International

Model

Digi Connect Remote Gateway GSM with Antenna
Digi Connect Remote Gateway CDMA with Antenna
Extended Temperature Power Supply

DC-RG-GE10A DC-RG-GE10A-W
DC-RG-S1XA N/A
76000717 76000717

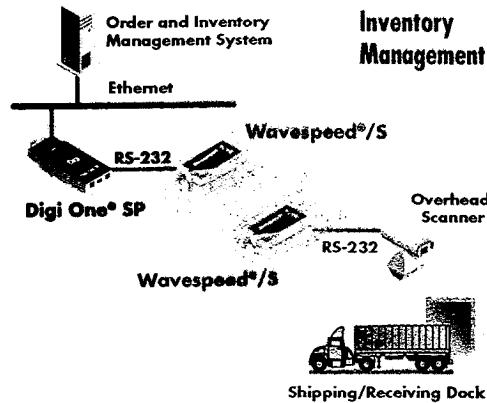
Please contact us at 1-800-437-7251 or 952-912-3444 for additional information
or to discuss your specific application requirements.

Wavespeed®/S :: Bluetooth Wireless Serial Adapter

Overview :: Is serial cabling a problem for you? The Wavespeed/S Bluetooth wireless serial adapter offers a secure, standards-based solution for easy serial cable replacement. It enables wireless RS-232 serial data transfer between peripheral devices and a host, or between a host and PDA or other Bluetooth-enabled device. Wavespeed/S increases user mobility in mission-critical applications such as mobile computing (emergency vehicles, delivery trucks), medical and retail/POS.

+ Features ::

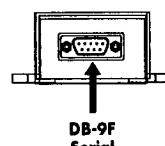
- Standalone solution connects to peripheral device or host for instant serial cable replacement
- Creates wireless serial link transparent to application software
- Increases user mobility and reduces cabling expenses
- Operating system independent
- Utilizes secure, standards-based technology for reliable data transfer
- In-range/out-of-range indicator enables event triggering, increases security
- Choose between two radio types based upon distance requirements
- Replace the serial cable on Digi solutions such as multiport serial cards, device servers and terminal servers
- Can be powered via 5-30VDC for mobile applications



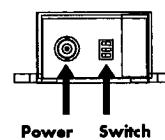
+ Specifications ::

- 1 RS-232 serial DB-9F port to wireless
- Bluetooth 1.1 compliant
- Class 1 radio distance: 100 meters (328.08 feet)
- Class 2 radio distance: 10 meters (32.81 feet)
- Software configurable as DTE or DCE device type
- Frequency: 2.4 GHz
- Baud rate (bps): 300, 1200, 2400, 4800, 7200, 9600, 19200, 38400, 57600 or 115200
- Data bits: 8, 7
- Stop bits: 1, 2
- Parity: none, odd, even
- Flow control: none, software (user-specified XON/XOFF), hardware (RTS/CTS)
- LED for device, software and wireless link status
- Frequency Hopping Spread Spectrum (FHSS)
- In range/out of range indicator (API available)
 - Determine when two devices are inside or outside communication range
 - Create event triggers for host application
 - Adjustable timeout length

Wavespeed/S - Front



Wavespeed/S - Back



Part Numbers ::

North America International

Model

Wavespeed/S Class 1	301-1121-01	301-2121-01
Wavespeed/S Class 1 Pair	301-1123-01	301-2123-01
Wavespeed/S Class 2	301-1122-01	301-2122-01
Wavespeed/S Class 2 Pair	301-1124-01	301-2124-01

Embedded 802.11b :: Wireless Embedded Modules

Digi Connect® Wi-ME :: Please see pages 42-43 for complete details.

The Digi Connect Wi-ME embedded module is pin- and software-compatible with the Digi Connect ME®, and makes fully transparent 802.11b network integration possible without the traditional complexities of hardware and software integration. Features include:

- 32-bit NET+ARM processor
- 4 MB Flash and 8 MB RAM on board
- 1 high-speed TTL serial interface
- 802.11b wireless LAN interface
- Strong WPA2/802.11i wireless security

Digi Connect® Wi-EM :: Please see pages 44-45 for complete details.

Fully pin- and software-compatible with the Digi Connect® EM, the Digi Connect Wi-EM minimizes design risk and reduces time to market by allowing customers to easily integrate 802.11b wireless networking in a single future-proof product design. Features include:

- 32-bit NET+ARM processor
- 4 MB Flash and 8 MB RAM on board
- 2 high-speed TTL serial interfaces
- 802.11b wireless LAN interface
- Strong WPA2/802.11i wireless security

External 802.11b :: Wireless Device Servers and LAN Adapters

PortServer® TS W MEI :: Please see page 24 for complete details.

PortServer TS W MEI is designed to easily integrate any RS-232/422/485 serial device to an 802.11b wireless Ethernet network. Available in one-, two- and four-port models, it is ideal for use in environments where wired LANs are not feasible and where serial devices are periodically moved. Features include:

- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Wired Equivalent Privacy (WEP) and Wi-Fi Protected Access (WPA) support
- Easy configuration through web browser interface (HTTP)

Digi Connect® Wi-SP :: Please see page 28 for complete details.

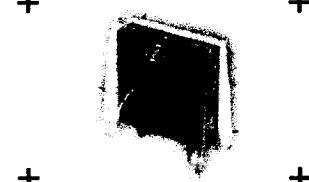
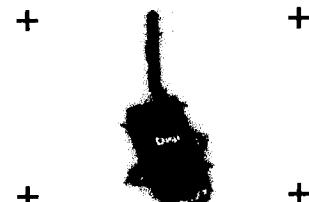
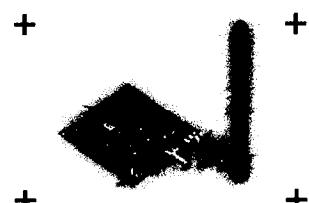
The Digi Connect Wi-SP is a flexible and secure 802.11b wireless device server in a compact off-the-shelf wireless device server platform. Features include:

- Plug-and-play firmware model
- Customizable via NET+Works Development Kit
- WPA encryption and authentication
- Switch-selectable RS-232/422/485 interface
- Serial data rates up to 230 Kbps

Wavespeed®/LAN :: Please see page 76 for complete details.

Wavespeed/LAN is a USB-to-802.11b wireless LAN adapter. It offers an easy solution for adding a PC, laptop or thin client to the LAN. This external alternative to a NIC card reduces the costs and hassles of implementing a wired connection to the LAN, without sacrificing performance. Features include:

- Communication via access point or peer-to-peer mode
- Powered by USB bus – no external power supply required
- 64-bit and 128-bit WEP encryption for secure data transfer

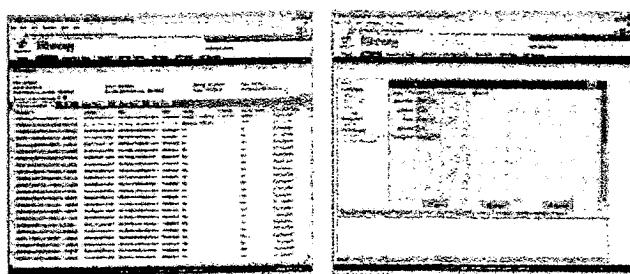


Management Tools/Special Features :: Digi Connectware® Manager

Overview :: Digi Connectware Manager is an enterprise software platform that provides secure management of remote sites and their devices from virtually anywhere. It offers enterprise class management and administration to Digi's remote site management products, including Digi Connect® WAN and Digi Connect® Remote Gateway, as well as Digi Connect embedded modules.

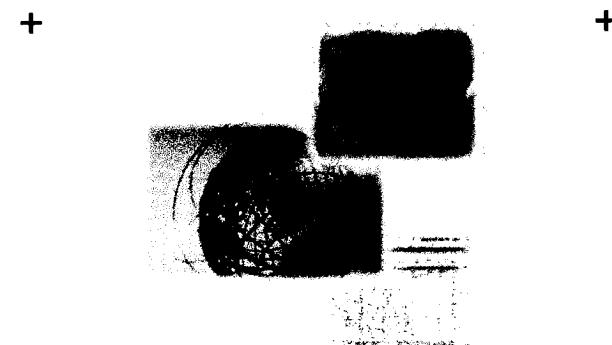
+ Features ::

- Provides easy management of large numbers of devices across remote (including wireless) networks
- Easy administration offers grouping of devices for automatic firmware upgrades and management
- Seamless connectivity offers hassle-free, secure connections regardless of IP architecture
- Integrates with Digi Connect WAN, Digi Connect Remote Gateway and Digi Connect embedded modules for remote device management
- Up to 256-bit AES security provides encryption and authentication for management communications via Digi Connectware Manager
- Lowers administrative maintenance costs by reducing onsite visits to remote locations
- Generates alarms and alerting for remote diagnostics
- Provides secure access to all devices from web browser, anywhere
- Compatible with Windows 2000, Windows XP, Windows Server 2003 and Linux systems



Manage many devices at the same time with just a few clicks

Easy, web based configuration



+ How it Works ::

Digi Connectware Manager is installed on a server at the customer site or at a Digi ASP partner. Administrators may securely log into Digi Connectware Manager from anywhere across an IP network (including the Internet) to access the application.

Digi Connectware Manager addresses the complexities of managing many remote devices by offering an easy, secure central point of access for all devices. Common tasks such as configuration changes or firmware upgrades can be made to one or one hundred devices using the grouping feature. Tasks may even be automated using a scheduling function to particular groups of devices.

Users will also realize savings in time and money with features such as built-in monitoring of devices which provides real-time statistics and reports so that problems can be dealt with instantly, without deploying a technician on-site. Alerts can even be generated via email to individuals or groups.

Administrators can securely access Digi Connectware Manager from multiple locations using a standard web browser via an SSL connection. The software integrates seamlessly with Digi Connect WAN, Digi Connect Remote Gateway and Digi Connect embedded modules for remote device management applications. These solutions are able to communicate with Digi Connectware Manager using a built-in micro-client, which uses a secure 256-bit AES connection.

Log in to a live server to see how a real Digi Connectware Manager works: www.digi.com/digiconnectwaredemo.

Part Numbers ::

Model

Digi Connectware Manager

Five licenses free with Digi Connect WAN, Digi Connect Remote Gateway or Digi Connect embedded modules

North America International

Please call

Please call

Multiport Serial Cards

PCI/PCI-X/ISA Solutions

Our multiport serial card product line, including the original DigiBoard®, is the number one selling serial card product line in the world. Our solutions offer the highest level of operating system support, serial port capacity, I/O performance, transmission distance, environmental tolerance and upgradeability for all of your application needs.

As PCs and servers continue to become smaller, customers who utilize rack mount servers, for example, need smaller card solutions with increased port counts. This is causing demand to shift from ISA and high profile PCI to low profile PCI. Since we are committed to maintaining our position as the clear world leader in serial connectivity, we responded to this trend by extending our market-leading product line to include low profile bracket options.

Choose from High Performance, Expandable, Enhanced and Standard models to find the exact feature set your application requires.

High-Performance

Good at handling large batches of data (streaming video, printing) using microprocessors to off-load burden from PC

Expandable

Start with eight ports and grow to as many as 128 per PC slot

Enhanced and Standard

No microprocessor, so ideal for handling small bursts of data; very low latency

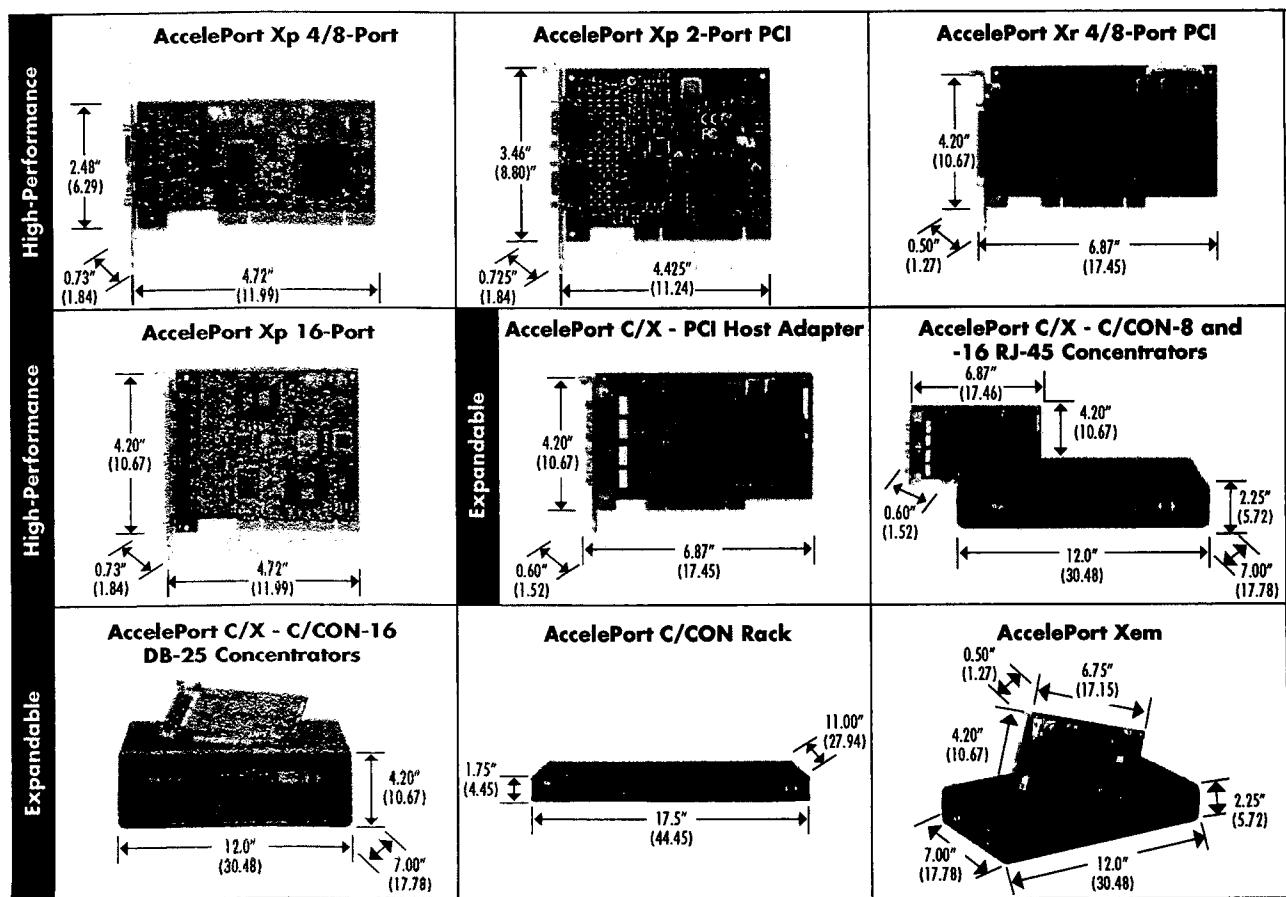
You might wonder whether our serial card solutions are supported in PCI-X systems. The answer is "Absolutely!" PCI-X is backwards-compatible with PCI cards and operates at 3.3 volts. All of our Universal PCI (3.3V and 5.5V) cards work in both the 32-bit and 64-bit slots of PCI-X systems.

What do you need to do?

- + Add 2 to 16 high-performance, intelligent, programmable serial ports.....**AccelePort Xp**
- + Add 4 to 8 RS-422 serial ports with broad OS compatibility**AccelePort Xr**
- + Utilize a cost-efficient serial connectivity solution that is expandable to 64 ports per slot with rack options**AccelePort Xem**
- + Gain up to 128 highly-intelligent ports per slot with remote connectivity options.....**AccelePort C/X**
- + Install a serial card with low latency and flexible connector and power options in a small form factor.....**Digi Neo**
- + Utilize a simple-to-install board with a 650 UART base.....**ClassicBoard**

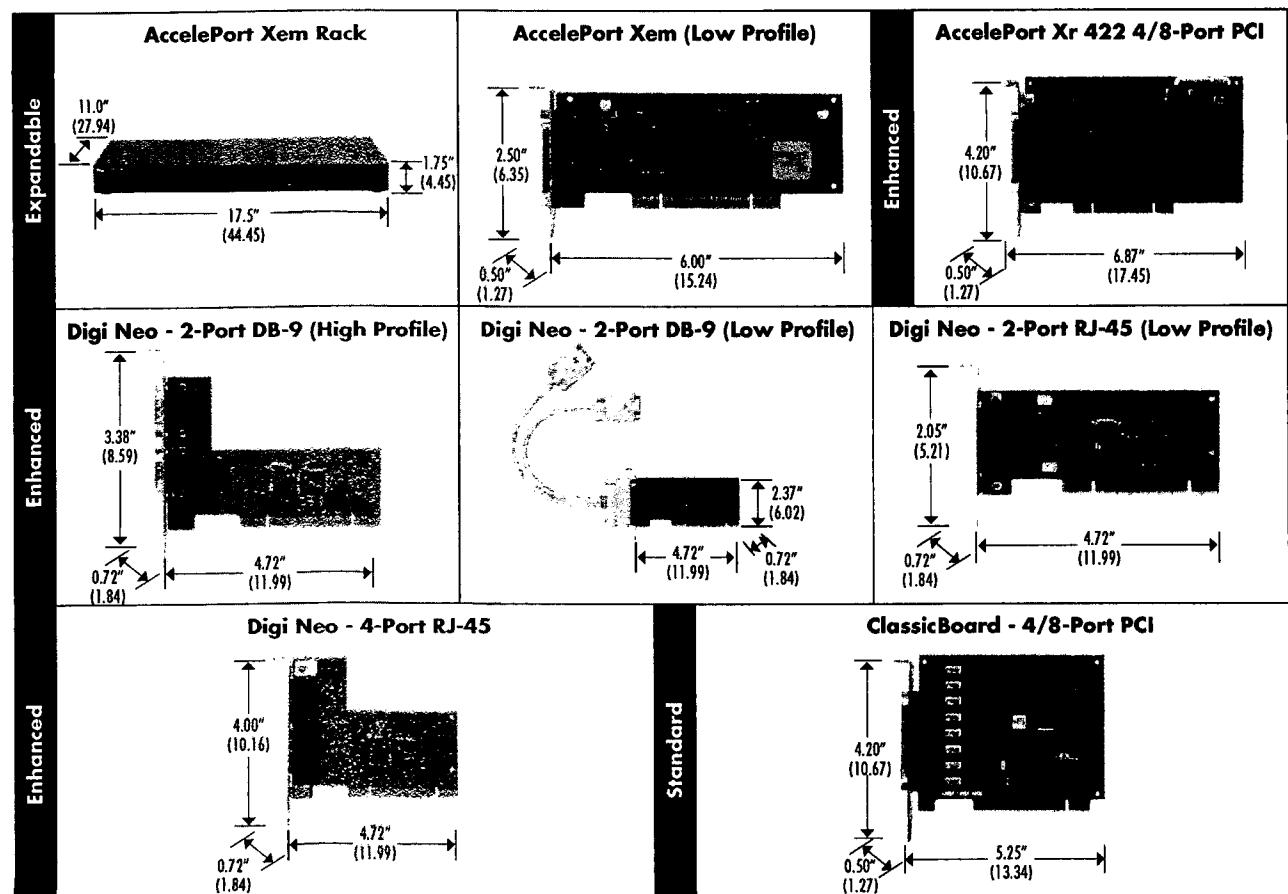
+ Multiport Serial Cards - PCI/PCI-X/ISA Solutions	
High-Performance	
• AccelPort [®] Xp	pg. 94
• AccelPort [®] Xp	pg. 96
• AccelPort [®] Xp	pg. 98
• AccelPort [®] C/X	pg. 100
• AccelPort [®] Xem	pg. 102
Expandable	
• Digi Neo [™]	pg. 104
Standard	
• ClassicBoard [™]	pg. 104

	High-Performance	AccelePort Xp	AccelePort Xr 232	AccelePort Xr 422	Expandable	AccelePort C/X	AccelePort Xem 232	Enhanced	Digi Neo	Standard	ClassicBoard PCI	ClassicBoard ISA
Multipoint Serial Card Features Chart	PCI/PCI-X	PCI/PCI-X	PCI/PCI-X	PCI/PCI-X /ISA	PCI/PCI-X	PCI/PCI-X /ISA	PCI/PCI-X	PCI/PCI-X	PCI (5V) ISA	4/8	4/8	
Serial Ports	2/4/8/16	2/4/8	8 to 128	8 to 64	1/2/4/8							
Serial Type	RS-232	RS-232	RS-232	RS-422	RS-232	RS-232	RS-232	RS-232	RS-232/422	RS-232	RS-232	
Serial Connector	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-25	RJ-45, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	RJ-45, DB-9, DB-25	
Baud	921.6 Kbps	Up to 921.6 Kbps 230 Kbps	115.2 Kbps	115.2 Kbps	Exceeding 460.8 Kbps				Up to 460.8 Kbps 115.2 Kbps			
Surge/ESD	15 kV	20 kV	15 kV	15 kV	15 kV	15 kV	15 kV	15 kV	15 kV	15 kV	15 kV	
Low Profile Models	4/8				8 to 64	1/2/4/8						



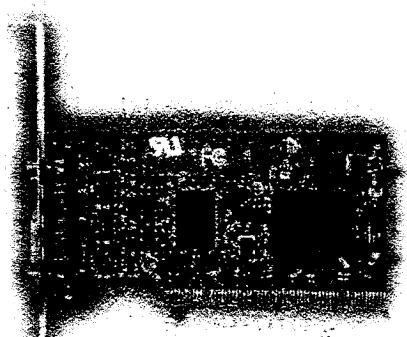
Measurements: inch
(cm)

	Windows 2000/XP/ Server 2003	Windows NT 4.0	Windows 95/98/ME	AIX	HP-UX	SCO OpenServer	SCO UnixWare	Solaris Intel	Solaris SPARC	Linux
Operating System Chart	•	•	•	•	•	•	•	•	•	•
AccelePort Xp	•	•	•	•	•	•	•	•	•	•
AcccelePort Xr	•	•	•	•	•	•	•	•	•	•
AcccelePort C/X	•	•	•	•	•	•	•	•	•	•
AcccelePort Xem	•	•	•	•	•	•	•	•	•	•
Digi Neo	•	•	•	•		•				•
ClassicBoard	•	•	•	•		•				•



AccelePort® Xp :: High-Performance Asynchronous Serial Cards

+



+

Overview :: AccelePort Xp Universal PCI (3.3V & 5V) cards are powerful, highly integrated 80 Mhz RISC processor-based products, delivering the highest performing design on the market today. They are available in two- to 16-port versions with a wide array of connector options, including onboard connectors, fan-out cables and external I/O boxes. AccelePort Xp is designed to enhance multiuser implementations such as retail/POS, industrial control processing, data collection and office automation.

+

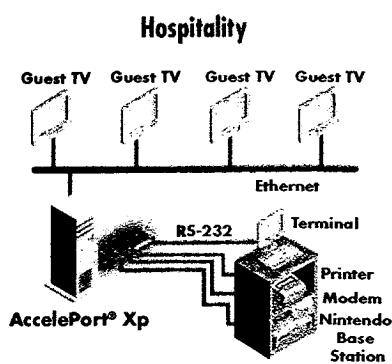
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+ Features ::

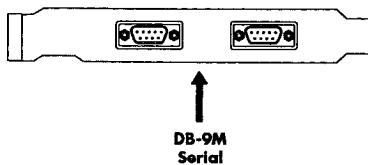
- Two to 16 RS-232 serial connections for port configuration flexibility
- Small form factor meets low profile PCI specifications
- External options connect to the adapter via a small SCSI HD-68 connector, reducing cable clutter and increasing connection reliability
- Surge protection on all signals for superior reliability
- Bus mastering design reduces CPU utilization
- Simultaneously supports data speeds of 921.6 Kbps, bi-directionally on all ports
- Ideal for retail/POS, industrial control processing, data collection and office automation
- PortAssist® Manager web-based management and reporting software enables basic diagnostics, enhanced network administration and monitoring on most supported operating systems (see page 109)
- 5-year warranty

+ Specifications ::

- 2/4/8/16 RS-232 serial ports
- Low profile options for 4- and 8-port models
- DB-9, DB-25 and RJ-45 connectors
- PCI Universal Card (3.3V & 5V)
- 32- and 64-bit PCI slot
- PCI 2.3 compliant
- PCI-X compatible
- 80 Mhz RISC processor
- 921.6 Kbps throughput
- Full modem control
- Hardware/software handshaking
- 15 kV surge protection on all signals

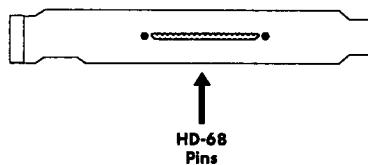


AccelePort Xp 2 DB-9



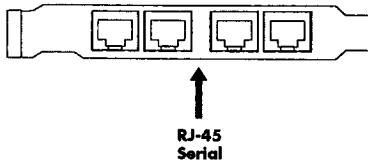
DB-9M
Serial

AccelePort Xp 4/8 HD-68



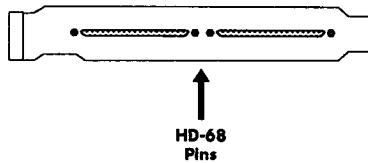
HD-68
Pins

AccelePort Xp 4 RJ-45



RJ-45
Serial

AccelePort Xp 16 Port HD-68



HD-68
Pins

The Makers of the Original

DigiBoard

PCI
3.3V-5V
Universal
Card

AccelePort® Xp :: High-Performance Asynchronous Serial Cards

Part Numbers ::

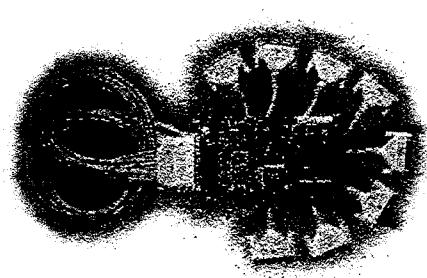
North America International

Model	North America	International
AccelePort Xp Universal PCI (3.3V & 5V) 2-Port RS-232	77000706	77000706
AccelePort Xp Universal PCI (3.3V & 5V) 4-Port RS-232	77000845	77000845
AccelePort Xp Universal PCI (3.3V & 5V) 4-Port Low Profile RS-232	77000707	77000707
AccelePort Xp Universal PCI (3.3V & 5V) 8-Port RS-232	77000846	77000846
AccelePort Xp Universal PCI (3.3V & 5V) 8-Port Low Profile RS-232	70001557	70001557
AccelePort Xp Universal PCI (3.3V & 5V) 16-Port RS-232 w/RJ-45 Rack	76000522	76000522
AccelePort Xp Universal PCI (3.3V & 5V) 16-Port Low Profile	76000532	76000532
4-Port DB-25M Straight Fan-Out Cable	76000524	76000524
4-Port DB-25F Straight Fan-Out Cable	76000526	76000526
4-Port RJ-45 Straight Fan-Out Cable	76000529	76000529
8-Port DB-9M Straight Fan-Out Cable	76000531	76000531
8-Port DB-9F Straight Fan-Out Cable	76000561	76000561
8-Port RJ-45 Straight Connector Box w/Cable	76000587	76000587
16-Port 2U 19" Rack w/DB-25M Connectors (use w/two 8-port AccelePort Xp cards)	76000534	76000534
16-Port 2U 19" Rack w/RJ-45 Connectors (use w/two 8-port AccelePort Xp cards)		
HD-68M to DB-78F Converter (use with legacy accessories)		

All cables and accessories: pg. 110, 113.

AccelePort® Xr 920 :: High-Performance Asynchronous Serial Cards

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Overview :: The AccelePort Xr 920 family of high performance serial cards includes two-, four- and eight-port models, all with wide application flexibility and scalability. Available in PCI Universal Card (3.3V & 5V), RS-232 and RS-422 versions, they provide a variety of operating system support and accessories (fan-out cables and external I/O connector boxes), and an extra dose of multi-strike surge protection on every pin. AccelePort Xr 920 is ideal for multiuser and Remote Access Server (RAS) applications.

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+ Features ::

- Flexible port and serial interface options
- RISC-based processor enhances overall system throughput by offloading CPU communication bottlenecks
- PCI and PCI-X compatible for use in older and newer machines
- Universal PCI bus slot supports 3.3V and 5V
- Full modem control and hardware and software flow control
- Heavy-duty surge protection on all pins for superior reliability
- Ideal for retail/POS, industrial control processing, data collection and office automation
- 5-year warranty

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+ Specifications ::

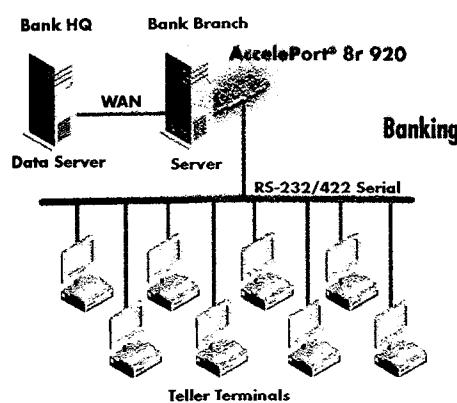
- 2/4/8 RS-232 serial port models
- 4/8 RS-422 serial port models
- DB-9, DB-25 and RJ-45 connector options
- 20 kV surge protection on all pins
- PCI Universal Card (3.3V & 5V)
- 32- and 64-bit PCI slot
- PCI 2.3 compliant
- PCI-X compatible
- Slave design
- Hardware/software handshaking

AccelePort Xr 920 RS-232

- Up to 921.6 Kbps throughput
- 16C654 Quad UARTs
- Software configurable bus port
- Full modem control

AccelePort Xr RS-422

- Up to 230 Kbps throughput
- 16C554 Quad UARTS



The Makers of the Original

DigiBoard

PCI
3.3V-5V
Universal
Card

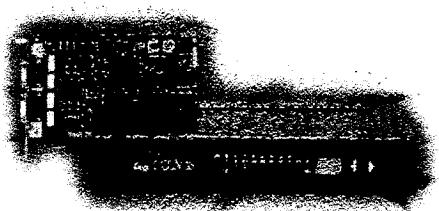
AccelePort® Xr 920 :: High-Performance Asynchronous Serial Cards

Part Numbers ::	North America	International
Model		
AccelePort Xr 920 Universal PCI (3.3V & 5V) 4-Port RS-422 w/DB-25M Cable	70001193	70001193
AccelePort Xr 920 Universal PCI (3.3V & 5V) 8-Port RS-422 w/DB-25M Cable	70001199	70001199
AccelePort Xr 920 Universal PCI (3.3V & 5V) 8-Port RS-232		
AccelePort Xr 920 Universal PCI (3.3V & 5V) 2-Port RS-232 DB-9M On-Board	77000573	77000573
AccelePort Xr 920 Universal PCI (3.3V & 5V) 4-Port RS-232 (w/o cables)	77000560	77000560
AccelePort Xr 920 Universal PCI (3.3V & 5V) 8-Port RS-232 (w/o cables)	77000561	77000561
Accessories for AccelePort Xr		
4-Port DB-25M Straight Fan-Out Cable	76000008	76000008
4-Port RJ-45 Straight Connector Box	76000038	76000038
8-Port DB-25M Straight Fan-Out Cable	76002042	76002042
8-Port RJ-45 Straight Connector Box	76000031	76000031
8-Port DB-25F Straight Fan-Out Cable	76000019	76000019

All cables and accessories: pg. 110, 115.

AccelePort® C/X :: Expandable Asynchronous Serial Cards

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Overview :: If you think configuring a large-scale multiport system is a complex, time-consuming process, think again. The AccelePort C/X asynchronous concentrator is fast, simple and surprisingly flexible. It provides a sophisticated blend of technologies, including an intelligent host adapter plus a desktop or rack mounted AccelePort C/CON Concentrator with eight or 16 high-speed, surge-protected RS-232 serial ports. System expansion is painless – just add more concentrators when you need more ports.

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+ Features ::

- Supports up to 128 ports from a single slot, hundreds of ports from a single host
- Delivers data transmission speeds up to 115.2 Kbps
- Supports serial ports just about anywhere – throughout a building, across town or around the world
- Configure and administer ports remotely, using synchronous modems, CSUs/DSUs, ISDN terminal adapters or fractional T1s
- On-board processing relieves host CPU of communication bottlenecks
- Available for PCI 3.3V or 5V (Universal Card)
- 5-year warranty

+ Specifications ::

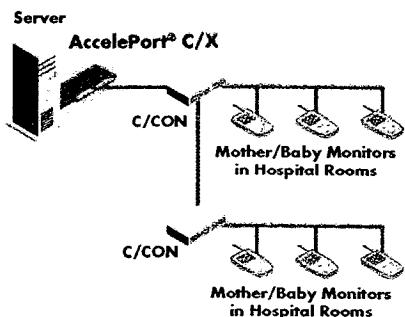
AccelePort C/X Host Adapters

- PCI Universal Card (3.3V/5V)
- 32- and 64-bit PCI slot
- PCI 2.3 compliant
- PCI-X compatible
- 85C30 serial communications controller, fully supported by DMA, driving two full-duplex, surge-protected RS-422 synchronous channels
- IDT 3041 RISC processor
- Hitachi 64570 serial communications controller
- Supports up to 3.7 Mbps bi-directional transmission speeds

AccelePort C/CON Concentrators

- 8/16 RS-232 asynchronous ports
- RJ-45 or DB-25 connectors
- 80186 processor on board
- One full-duplex RS-422 synchronous 85C30 channel with full DMA support
- Pass-through fault tolerance
- Surge protection on all RS-232 ports
- 120VDC or Universal 240VDC power supply included, 50-60 Hz (Universal)
- Desktop or 19-inch rack chassis available
- Front panel display for testing, debugging and monitoring concentrator performance

Nurses Station

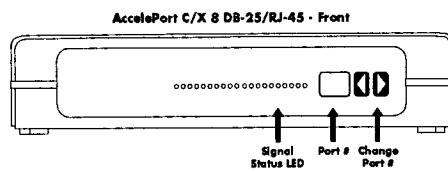
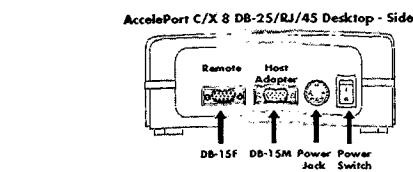
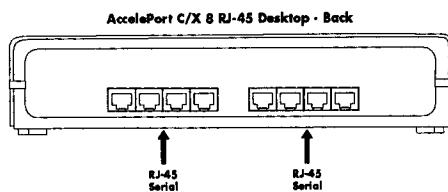
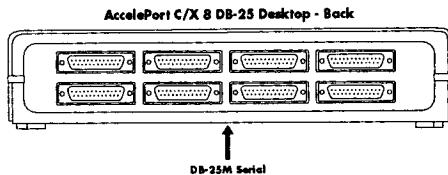
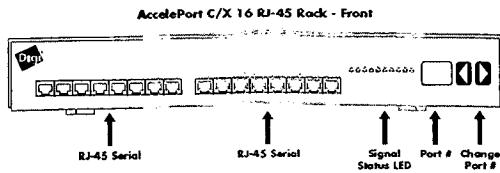


The Makers of the Original

DigiBoard

PCI
3.3V-5V
Universal
Card

AccelePort® C/X :: Expandable Asynchronous Serial Cards



Part Numbers::

North America International

Model

AccelePort C/X Universal PCI (3.3V & 5V) 8-Port RS-232

70001171 70001172

AccelePort C/X Universal PCI (3.3V & 5V) 8-Port RJ-45 Concentrator

AccelePort C/X Universal PCI (3.3V & 5V) 16-Port RS-232

70001167 70001168

AccelePort C/X Universal PCI (3.3V & 5V) 16-Port RJ-45 Concentrator

Universal Concentrators

AccelePort C/CON 8-Port RS-232 DB-25

76000218 76000219

AccelePort C/CON 16-Port RS-232 DB-25

76000069 76000070

AccelePort C/CON 16-Port RS-232 RJ-45

76000147 76000158

Host Adapter

AccelePort C/X Universal PCI (3.3V & 5V) RS-232

AccelePort C/X Fiber Link Adapter

76000071 76000107

AccelePort C/CON Power Supply

76000611 76000611

19" Rack Chassis - 2U for AccelePort C/CON and Digi PORTS/Xem

76000211 76000211

RS-232 Sync Modem Cable

76000211 76000211

RS-232 Sync Modem to Remote Cable

All cables and accessories: pg. 110, 114.

AccelePort® Xem :: Expandable Asynchronous Serial Cards

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Overview :: The AccelePort Xem asynchronous system is an expandable, modular and intelligent serial communication solution designed specifically for small to mid-size multiuser installations. It is especially well-suited for applications that are expected to start small and grow over time to as many as 64 ports.

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+ Features ::

- Expandable up to 64 ports from a single host slot
- Eight- and 16-port concentrator boxes provide incremental expansion
- Universal PCI bus slot supports 3.3V & 5V
- Low profile PCI option
- ISA bus product available
- Delivers data speeds up to 115.2 Kbps
- Ideal for connecting modems, terminals, printers, instruments and other serial devices
- 1U 19-inch rack mount 16-port option
- 5-year warranty

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+ Specifications ::

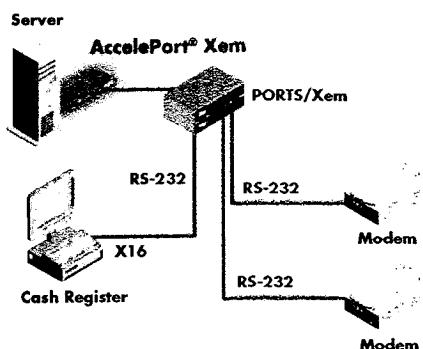
AccelePort Xem Host Card

- Supports both Universal PCI (3.3V & 5V) and ISA platforms
- PCI 2.3/PCI-X compatible
- 32- and 64-bit PCI slot
- Low profile PCI option
- Up to 115.2 Kbps throughput per port
- One host card supports up to four Digi PORTS modules, up to 64 ports
- On-board IDT 3081 RISC processor with patented Front End Processor/Operating System (FEP/OS)

Digi PORTS Modules

- Interchangeable between ISA and PCI platforms and PortServer® II
- 8 or 16 RS-232 serial ports (RJ-45 or DB-25)
- 1U 19-inch rack mount PORTS/16em for RS-232
- 16 RS-422 asynchronous serial ports (DB-25)
- Modules can connect to PortServer® II to expand port count up to 64 ports
- External Bus Interface (EBI) technology uses HD44 female connectors on PORTS modules to daisy-chain additional ports via 16-inch (40.6 cm) cable
- Surge protection on all signals
- Full modem control and hardware handshaking (CTS, RTS, DSR, DTR and DCD) on all channels

Point-of-Sale

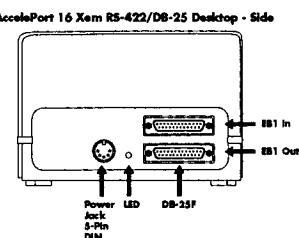
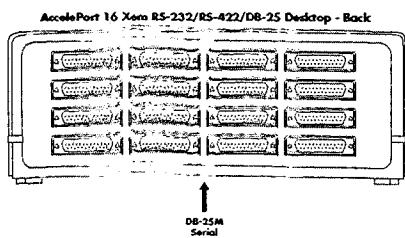
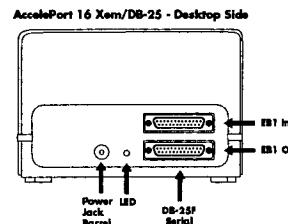
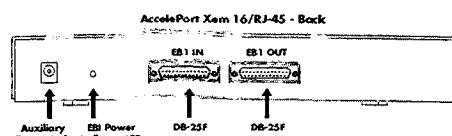
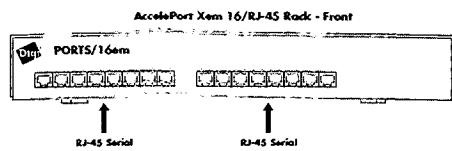


The Makers of the Original

DigiBoard®



AccelePort® Xem :: Expandable Asynchronous Serial Cards



Part Numbers ::

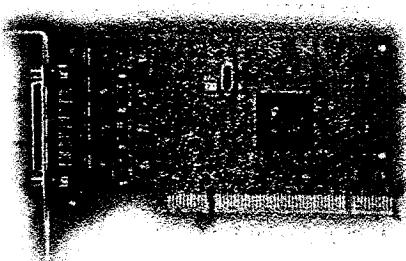
North America International

Model			
AccelePort Xem Universal PCI Kits			
AccelePort Xem Universal PCI (3.3V & 5V) 8-Port RS-232 DB-25 Concentrator	70001208	70001208	
AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 DB-25 Concentrator			
AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 1U 19" Rack	70001203	70001203	
AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 1U 19" Rack	70001757	70001757	
AccelePort Xem Low Profile Universal PCI Kits			
AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 8-Port RS-232 w/DB-25 Concentrator	70002008	70002008	
AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-232 w/DB-25 Concentrator	70002010	70002010	
AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-232 w/RJ-45 1U Rack	70002012	70002012	
Digi PORTS/Xem Modules			
Digi PORTS/Xem 8-port RS-232 DB-25 Concentrator	76000120	76000120	
Digi PORTS/Xem 16-port RS-232 DB-25 Concentrator	76000073	76000073	
Digi PORTS/Xem 16-port RS-232 RJ-45 Concentrator	76000617	76000617	
Digi PORTS/Xem 16-port RS-232 DB-25 Concentrator			
Power Supply			
AccelePort Xem Universal PCI (3.3V & 5V)	77000455	77000455	
AccelePort Xem Universal PCI (3.3V & 5V) Low Profile			
Cables			
AccelePort Xem Power Supply	76000109	76000321	
16' Daisy Chain Cable (host to PORTS module)	76000707	76000707	
120' Daisy Chain Cable (host to PORTS module)	76000709	76000709	

All cables and accessories: pg. 110, 116.
See website for complete specifications, including ISA models.

Digi Neo® :: Enhanced Asynchronous Serial Cards

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Overview :: Digi Neo delivers reliable serial port expansion in standard and low profile Universal PCI boards, with throughput speeds exceeding 460.8 Kbps. Its low profile size makes it one of the smallest form factor serial card solutions on the market today – and the industry's first low profile eight-port solution on a single card. Extensive cabling and software driver options provide maximum flexibility in installations.

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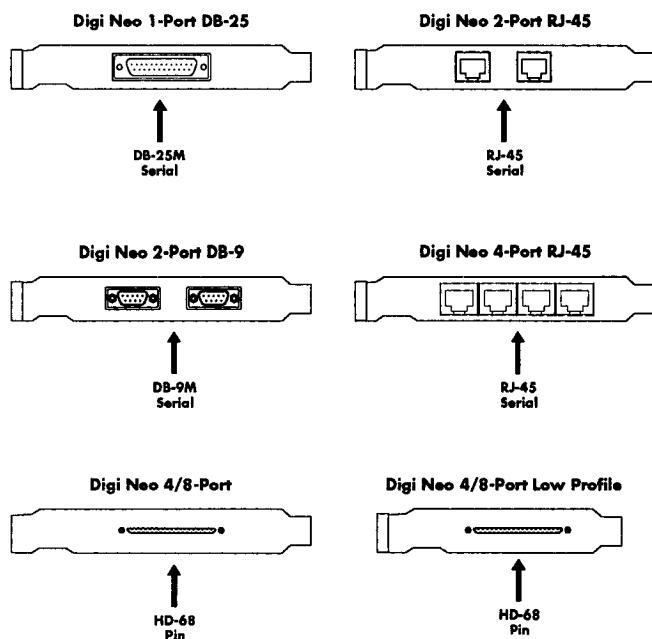
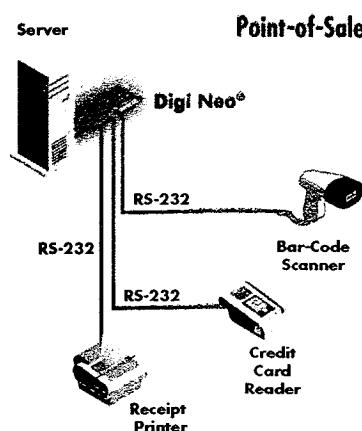
+ Features ::

- Universal PCI (3.3V and 5.5V) bus slot support
- Enhanced monitoring and diagnostic tool for ease-of-use
- Flexible cabling/connector options
- Surge suppression on all signals ensures voltage fluctuations will not degrade data transmissions
- Low latency for reliable performance
- Powered serial port options
- Ideal for tight work spaces and specialized server/PC environments and applications such as retail/POS, industrial automation, factory control, kiosks and data collection
- Windows, UNIX and Linux driver support
- 5-year warranty

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+ Specifications ::

- 1/2/4/8 RS-232 serial ports
- DB-9, DB-25 and RJ-45 connectors
- Universal PCI (3.3V and 5V) platform
- 32- and 64-bit PCI slot
- Low profile options
- PCI-X/PCI 2.3 compatible
- Surge suppression (15kV) on all signals
- Throughput exceeding 460.8 Kbps
- Powered (5V) serial port options using Ring Indicator signal at 600mA
- Full modem control
- Hardware or software flow control
- Low latency - same or better than standard COM port
- Custom baud rates
- 16C850 UART equivalent



The Makers of the Original
DigiBoard®

PCI
3.3V-5V
Universal
Card

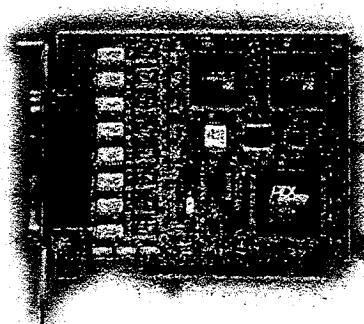
Digi Neo® :: Enhanced Asynchronous Serial Cards

Part Numbers::	North America	International
Model		
Digi Neo Universal PCI (3.3V & 5V) 1-Port DB-25M	77000864	77000864
Digi Neo Universal PCI (3.3V & 5V) 2-Port DB-25M	77000848	77000848
Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45	77000857	77000857
Digi Neo Universal PCI (3.3V & 5V) 4-Port w/o Cables	70001946	70001946
Digi Neo Universal PCI (3.3V & 5V) 4-Port w/DB-25M Fan-Out Cables	70001946	70001946
Digi Neo Universal PCI (3.3V & 5V) 8-Port w/o Cables	70001946	70001946
Digi Neo Universal PCI (3.3V & 5V) Low Profile RS-232	70001965	70001965
Digi Neo Universal PCI (3.3V & 5V) Low Profile w/2-Port DB-9M Fan-Out Cable	77000849	77000849
Digi Neo Universal PCI (3.3V & 5V) 2-Port DB-25M Low Profile	77000836	77000836
Digi Neo Universal PCI (3.3V & 5V) 2-Port Low Profile (board only)	77000836	77000836
Digi Neo Universal PCI (3.3V & 5V) 8-Port Low Profile (board only)	77000836	77000836
Powered (5V) Serial Ports RS-232		
Digi Neo Universal PCI (3.3V & 5V) 2-Port DB-9M	77000852	77000852
Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45	77000856	77000856
Digi Neo Universal PCI (3.3V & 5V) 4-Port RJ-45	77000856	77000856
Digi Neo Cable Upgrade Kit		
4-Port DB-25M Fan-Out Cable	76000522	76000522
4-Port DB-9M Straight Fan-Out Accessories	76000532	76000532
4-Port DB-25F Straight Fan-Out Cable	76000524	76000524
4-Port RJ-45 Straight Fan-Out Cable	76000526	76000526
8-Port DB-9M Straight Fan-Out Cable	76000529	76000529
8-Port DB-9F Straight Fan-Out Cable	76000531	76000531
8-Port DB-25F Straight Fan-Out Cable	76000561	76000561
16-Port 2U 19" Rack w/DB-25M Connectors (use w/two 8-port Digi Neo cards)	76000587	76000587
HD-68M to DB-78F Converter (use with legacy accessories)	76000534	76000534

All cables and accessories: pg. 110, 113.

ClassicBoard™ :: Enhanced Asynchronous Serial Cards

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Overview :: The ClassicBoard family of PCI and ISA serial cards is best suited for applications where the CPU is able to devote some of its resources to handling computations or for real-time applications that require short latency intervals. It is ideal for connecting cash registers, print receipt devices, scanners and other peripheral devices in retail POS systems as well in applications using peripherals such as sensors, switches, measurement devices and more.

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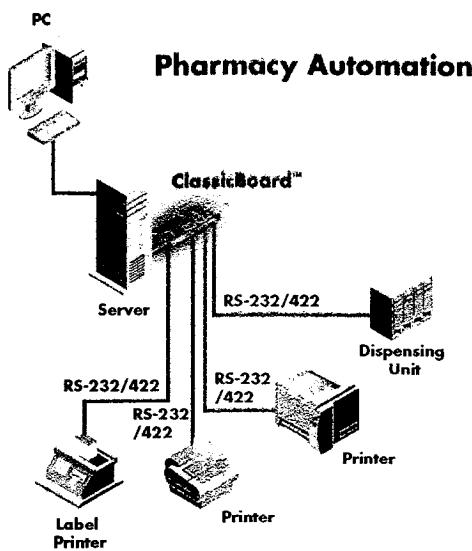
+ Features ::

- Cost-effective solution for retail/POS systems, Electronic Data Interchange (EDI), industrial automation and other applications where low latency is required
- ISA and PCI bus support
- RS-232 and RS-422 models for cabling flexibility
- Easy to install – no DIP switches or jumpers to set
- Every signal safeguarded by built-in surge protection
- 5-year warranty

+ Specifications ::

- 4/8 RS-232 or RS-422 serial ports
- DB-9, DB-25 and RJ-45 connectors
- Supports speeds up to 460.8 Kbps
- 32-bit PCI slot
- Full-duplex operation
- Multi-strike surge suppression on every signal
- 16C654 UARTs providing automatic flow control and 64-byte FIFO
- Supports auto configuration of all PCI interrupts
- Powered (5V) serial port options using Ring Indicator signal @ 600 mA

See website for complete specifications, including ISA models.



The Makers of the Original

DigiBoard™

ClassicBoard™ :: Enhanced Asynchronous Serial Cards

Part Numbers ::

North America International

Model	North America	International
ClassicBoard PCI (5V) 4-Port RS-232 w/o Cables	77000576	77000576
ClassicBoard PCI (5V) 4-Port RS-232 w/Powered 5V Serial Ports RS-232 w/o Cables	77000771	77000771
ClassicBoard PCI (5V) 8-Port w/Powered 5V Serial Ports RS-232		
ClassicBoard PCI (5V) 4-Port RS-422	77000862	77000862
ClassicBoard PCI (5V) 4-Port RS-422 w/o Cables		
4-Port Straight DB-9M Fan-Out Cable	76000003	76000003
4-Port Straight DB-9F Fan-Out Cable		
4-Port Straight DB-25M Fan-Out Cable	76000008	76000008
4-Port Straight DB-25F Fan-Out Cable		
4-Port Straight DB-25M Connector Box	76000030	76000030
4-Port Straight DB-25F Connector Box		
4-Port RJ-45 Connector Box	76000038	76000038
4-Port DB-9M Connector Box		
4-Port Straight DB-25F Fan-Out Cable	76000006	76000006
4-Port Straight DB-25M Fan-Out Cable		
4-Port DB-9F RS-422 Fan-Out Cable	76000002	76000002
4-Port DB-9M RS-422 Fan-Out Cable	76000004	76000004
4-Port DB-25F RS-422 Fan-Out Cable		
4-Port DB-25M RS-422 Fan-Out Cable	76000178	76000178
4-Port DB-9M RS-422 Fan-Out Cable		

All cables and accessories: pg. 110, 115.

ISA solutions also available. See our website for details.

Multi-Modem Communication Adapters

High-Speed Analog Solutions

The AccelePort RAS® family of multi-modem communication adapters provides the widest compatibility and most powerful performance available for demanding applications such as fax servers, remote access, data acquisition and modem pooling.

High-Speed Multi-Modem Adapters Support Four or Eight Channels

AccelePort RAS multi-modem adapters integrate high density analog modems supporting four or eight channels in a single PCI slot. Multiple AccelePort RAS cards can be installed in a single server so capability can be added as system needs grow.

Advanced DSPs Support V.90 Modem and Advanced Fax Communications

The dense modem technology built into the AccelePort RAS hardware is based on industry-standard Digital Signal Processors (DSPs). On-board DSPs provide advanced modem and fax support and maximize the efficiency of each communications channel. Each AccelePort RAS channel operates independently and supports the widest range of analog clients for complete and accurate call completion at the highest data rate possible.

OS Integration and Use of Standard APIs

AccelePort RAS integrates with and takes advantage of the inherent communication capabilities already built into your OS environment. Use of standard APIs means installation and management of your ports is completely familiar and intuitive to network administrators. In addition, AccelePort RAS facilitates simple deployment of software application solutions based on existing interfaces provided in the OS.

What do you need to do?

- + Manage multiple fax machines in a small business to a single sever **AccelePort RAS**
- + Data collection/acquisition via multiple analog modems **AccelePort RAS**
- + Back room remote access to various company branches **AccelePort RAS**

+ Multi-Modem Communication Adapters – High-Speed Analog Solutions

Multi-Modem Communication Adapters

- AccelePort RAS® pg. 107

Management Tools/Special Features

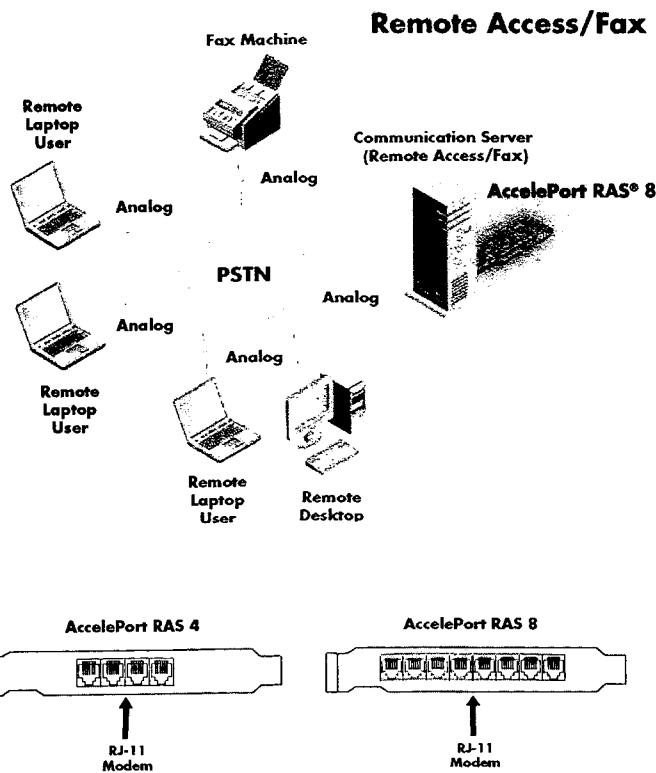
- PortAssist Manager pg. 109

AccelePort RAS® :: Multi-Modem Communication Adapters

Overview :: AccelePort RAS multi-modem analog adapters provide high-performance and cost-effective communication abilities. They are the ideal choice for a wide variety of applications including data acquisition, fax connectivity, Remote Access Services (RAS), modem pooling and branch office gateways.

+ Features ::

- Up to eight ports with full V.90 modem and fax support
- Highly flexible design based on Digital Signal Processors (DSPs)
- Universal PCI adapter supporting 3.3V and 5V PCI systems
- Scalable system architecture allows additional boards to be added to the system
- Wide operating system and third-party application support
- PortAssist® Manager software included for web-based monitoring and control
- Software and hardware modem reset of individual modems
- Ideal for data acquisition, RAS, modem pooling, branch office gateways and fax connectivity
- 5-year warranty



+ Specifications ::

- 4/8 analog modems per slot
- RJ-11 modular connectors

Modem Type

- DSP
- Software upgradeable

Bus Type

- 32-bit PCI
- Bus Master Design
- Universal 3.3V and 5.V PCI support
- PCI/PCI-X compatible

Fax Feature Set

- Fax class 2/2.0
- Class 2.0 Error Correction Mode
- Supports all optional class 2.0 data format conversions including:
 - Normal Image
 - Fine Image
 - MH (1D) Image Conversion
 - MR (2D) Image Conversion
 - MMR Image Conversion
- Copy Quality Checking and Receive Quality Thresholds
- Adaptive Answering
- Automatic Page Header Generation (TSI Banner)
- Distinctive Ring

Modem Standards Compatibility Data Modes

- V.90
- K56flex
- V.34, V.32 bis, V.32, V.24 bis, V.23, V.22bis, V.22, V.21
- Bell 212a, Bell 103,

Compression

- V.42 bis
- MNP Class 2, 4, and 5

Error Correction

- V.42

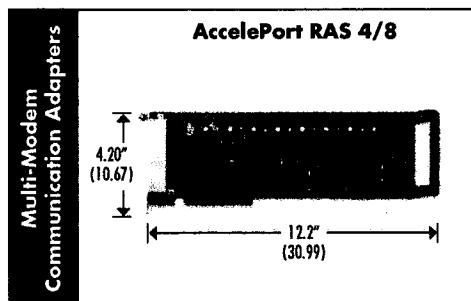
Fax Modes

- Group 3
- V.17, V.29, V.27 ter, V.21 channel 2

See website for complete specifications.
USB RAS solutions also available (pg. 74).

AccelePort RAS Features Chart	
Modem Ports	4/8
Modem Connector	RJ-11
Modem Type	DSP
Bus Type	32-bit PCI (3.3V & 5V)
Data Modes	V.90, 56 K-flex
Operating Temperature	0° C to 50° C
Reset Modes	Software and hardware
Fax Class	2/2.0
Software Upgradable	Yes

AccelePort RAS



Measurements: inch
(cm)

	Windows 2000/XP/ Server 2003	Windows NT 4.0	AIX	HP-UX	Linux	SCO OpenServer	SCO UnixWare	Solaris Intel	Solaris SPARC
AccelePort RAS	•	•	•	•	•	•	•	•	•

Part Numbers ::

Model

AccelePort RAS 4 Europe	77000617
AccelePort RAS 4 Germany, South Africa	77000618
AccelePort RAS 4 Australia, New Zealand	
AccelePort RAS 4 Latin America (Mexico, Argentina, Chile)	77000775
AccelePort RAS 4 Israel, Hungary	77000777
AccelePort RAS 8 Europe	77000584
AccelePort RAS 8 Germany, South Africa	77000585
AccelePort RAS 8 Australia, New Zealand, Switzerland	
AccelePort RAS 8 Latin America (Mexico, Argentina, Chile)	77000772
AccelePort RAS 8 Israel, Hungary	77000774

Management Tools/Special Features :: PortAssist® Manager

Overview :: Digi's PortAssist Manager is a web-based monitoring and control tool for AccelePort Xp asynchronous serial cards and AccelePort RAS multi-modem analog adapters. It consists of three key components:

Server

The server component of PortAssist Manager acquires and processes information from the communication agents on the network, and makes it available to clients through a web browser interface. The system hosting the PortAssist Manager server must run a supported operating system and a Java Virtual Machine version 1.1 (or greater).

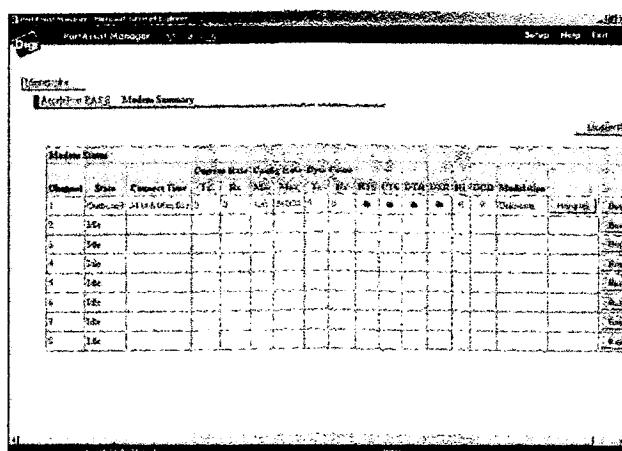
Communication Agent

The communication agent is the link between the actual Digi product and the server. The Digi product and its communication agent need to be installed on the same system in order to enable communication with the PortAssist Manager server component.

Client

Any system running Netscape Navigator 4.0 (or greater) and Microsoft Internet Explorer 4 (or greater).

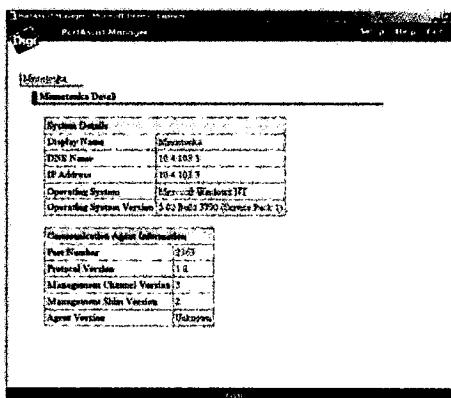
Line View screen showing the layout of the navigation and the first level of statistics available for modem and channel connections



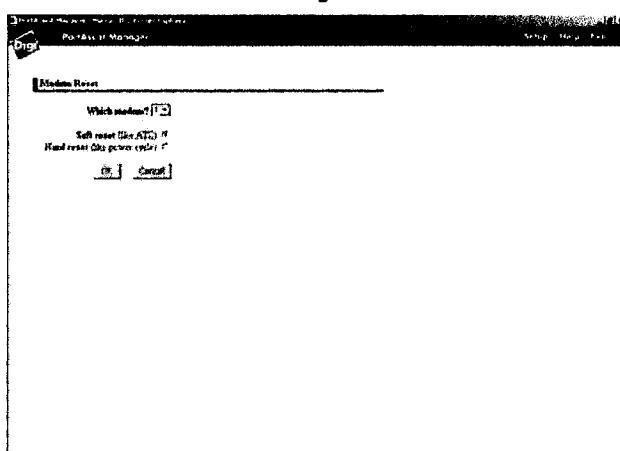
+ Features ::

- Monitoring and managing capabilities for up to 16 systems per application
 - Alerting of alarm conditions
 - Line statistics and status information
 - Hang up, modem reset and busy out functionality for AccelePort RAS

Network View screen showing four systems



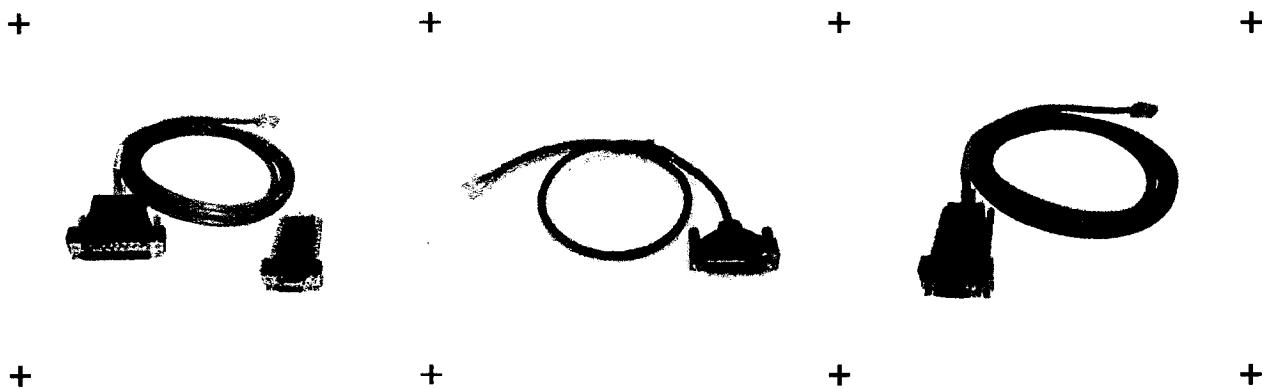
Modem Reset screen showing the modem reset function



Options/Accessories :: Cabling, Mounting and More

**PortServer® TS Family (RJ-45 Ports), Digi One® Family (DB-9 Ports), Digi Neo®,
Digi Connect® WAN, Digi Connect® RG, AccelePort® Xp ::**

**With RJ-45 Connector Boxes: ClassicBoard™, AccelePort® C/X, AccelePort® Xem,
AccelePort Xr 920 ::**



Part Numbers ::

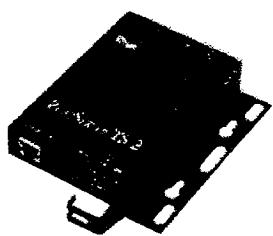
North America International

Cables		
24" RJ-45/DB-25M Straight Cable		
48" RJ-45/DB-25M Straight Cable	76000195	76000195
6' RJ-45/DB-25F Crossover Cable		
24" RJ-45/DB-25F Straight Cable	76000198	76000198
48" RJ-45/DB-25F Straight Cable		
24" RJ-45/DB-9F Straight Cable	76000200	76000200
48" RJ-45/DB-9F Straight Cable		
24" RJ-45/DB-25M Crossover Cable	76000238	76000238
48" RJ-45/DB-9M Straight Cable		
48" RJ-45/DB-9M Straight Cable	76000240	76000240
48" RJ-45/DB-9F Crossover Cable		
24" RJ-45/DB-25M Printer Cable	76000643	76000643
48" RJ-45/DB-9M Crossover Cable		
48" DB-9F/DB-9F Crossover Cable (works with all DB-9 products)	76000642	76000642
RJ-45 10-Pin to RJ-45 8-Pin Modem Cable		
48" RJ-45 Bare Wire Cable	76000723	76000723
48" DB-9 Bare Wire Cable (Digi One devices)		
6' RJ-45 to Sun Netra/Cisco RJ-45 Cable	76000631	76000631
6' Bundle of 8 RJ-45 to Sun Netra/Cisco RJ-45 Cable		
6' Bundle of 16 RJ-45 to Sun Netra/Cisco RJ-45 Cable	76000633	76000633
Digi Cable Evaluation Kit		
Cable Adapters		
RJ-45F/DB-9F Console Adapter (4-pack)	76000697	76000697
RJ-45F/DB-25M Console Adapter (4-pack)		
RJ-45F/DB-25F Console Adapter (4-pack)	76000699	76000699
RJ-45F/DB-25M Modem Adapter (4-pack)		
RJ-45F/DB-9M Modem Adapter (4-pack)	76000701	76000701
RJ-45F/DB-25M Printer Adapter (4-pack)		
Digi Cable Adapter Evaluation Kit	76000693	76000693

Options/Accessories :: Cabling, Mounting and More

Digi One® Family, PortServer® TS Family, Digi Connect® WAN, Digi Connect® RG ::

+ + + +



+ + + +

Part Numbers ::

North America International

Mounting Options

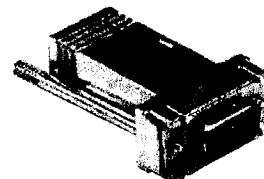
Wall Mount Shelf - PortServer TS (4 units of PortServer TS)	76000640	76000640
Wall Mount Bracket with Power Cord Holder - Digi Connect WAN, Digi Connect RG, PortServer TS 1/2/4 (RS-232/422/485 only)	76000641	76000641
Wall Mount Bracket - Digi One RealPort, PortServer TS 1/2/4	76000641	76000641
DIN Rail Bracket Kit - Digi Connect WAN, Digi Connect RG, PortServer TS 1/2/4	76000642	76000642
Wall Mount Bracket Kit - Digi One SP	76000662	76000662
19" Telco Rack Mount Kit - PortServer TS to Rack		

Power Supplies - PortServer TS, Digi Connect WAN, Digi Connect RG

Extended Temperature Power Supply	76000717	76000717
Replacement 120-240VAC Input Power Supply	76000696	76000696
PortServer TS 8 48VDC Power Supply		

Digi CM™ ::

+ + + +



+ + + +

Part Numbers ::

North America International

Cable Adapters

RJ-45F/DB-25M Modem Adapter (8-pack)	76000671	76000671
RJ-45F/DB-9F Console Adapter (8-pack)	76000673	76000673
RJ-45F/DB-25M Console Adapter (8-pack)	76000673	76000673
RJ-45F/DB-25F Console Adapter (8-pack)	76000673	76000673
RJ-45F/DB-9M Modem Adapter (8-pack)		

Power Supplies

Digi CM 8-Port 120-240VAC Power Supply	76000695	76000695

Mounting Options

19" Rack Mount Kit - Digi CM 16/32	76000705	76000705
19" Rack Mount Kit - Digi CM 8		

Options/Accessories :: Cabling, Mounting and More

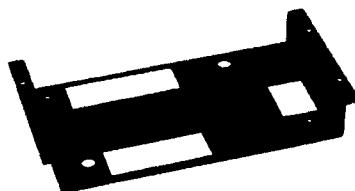
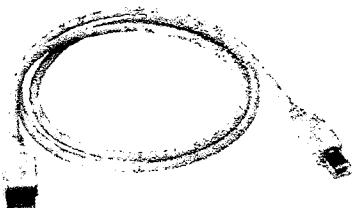
**AnywhereUSB®, Edgeport®, Hubport®, Rapidport/4®, USB Plus Series,
Watchport®/V2, Wavespeed®/LAN ::**

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Part Numbers ::

North America International

Cables

1-Meter A to B USB Cable	301-9000-07	301-9000-07
2-Meter A to B USB Cable		
3-Meter A to B USB Cable		
4-Meter A to B USB Cable	301-9000-10	301-9000-10
5-Meter A to B USB Cable		
5-Meter USB Repeater Cable	301-9002-01	301-9002-01
6-USB to Parallel Printer Cable		

Adapter

Edgeport/E USB Ethernet Adapter	301-1050-01	301-1050-01
USB Upgrade Kit PCI to USB Expansion Card		

Mounting Options

Edgeport 19" Rack Mount Kit	301-9001-01	301-9001-01
Edgeport/4 Wall/Shelf Mount Bracket	301-9004-01	301-9004-01

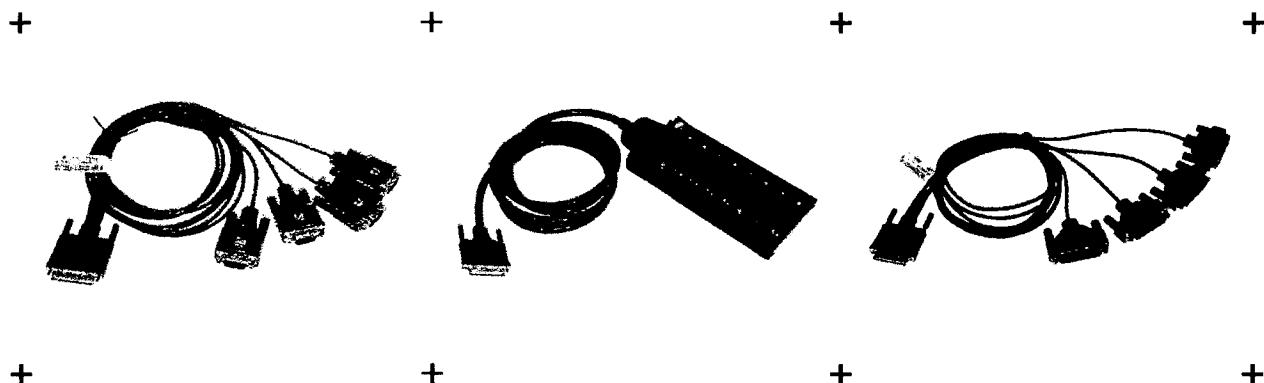
USB Camera Accessories

Watchport/V USB Camera Lens Pack (3 mm wide angle, 8 mm close-up, 12 mm telephoto)		
Watchport/V Wall Mount	301-9019-01	301-9019-01

Watchport/V Clamp Mount

Options/Accessories :: Cabling, Mounting and More

AccelePort® Xp, Digi Neo® ::



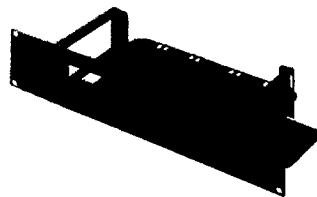
Part Numbers ::	North America	International
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Connector Options	North America	International
4-Port DB-25M Straight Fan-Out Cable	76000532	76000532
4-Port DB-25F Straight Fan-Out Cable		
4-Port DB-9M Straight Fan-Out Cable	76000530	76000530
4-Port DB-9F Straight Fan-Out Cable		
4-Port DB-25M Straight Connector Box	76000560	76000560
4-Port DB-9M Straight Connector Box		
4-Port RJ-45 Straight Connector Box		
8-Port DB-25M Straight Fan-Out Cable	76000523	76000523
8-Port DB-25F Straight Fan-Out Cable		
8-Port DB-9M Straight Fan-Out Cable	76000529	76000529
8-Port DB-9F Straight Fan-Out Cable		
8-Port DB-25M Straight Connector Box	76000525	76000525
8-Port DB-9M Straight Connector Box		
8-Port RJ-45 Straight Connector Box	76000527	76000527
HD-68M to DB-78F Converter	76000559	76000559
10' HD-68 Pin Cable		
Mounting Options	North America	International
16-Port 2U 19" Rack w/DB-25M Connectors		
16-Port 1U 19" Rack w/RJ-45 Connectors	76000588	76000588
Digi Neo Upgrade Kit	North America	International
Digi Neo 2-Port DB-9M Fan-Out Cable		

Options/Accessories :: Cabling, Mounting and More

AccelePort® C/X ::

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+ + + +

Part Numbers ::

North America International

Power Supplies

AccelePort C/CON Power Supply	76000694	76000694
Acceleport C/CON Desktop 120-240VAC Power Supply		

Upgrade Kit

AccelePort C/CON RS/6000 Compatibility Upgrade Kit (for IP-PORTS-X)	76000211	76000211
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Accessories

AccelePort C/X Fiber Link Adapter	76000071	76000107
AccelePort C/X Host Adapter to RS-232 Sync Modem Cable		

AccelePort C/X Host RS-232 Sync Modem to Remote Concentrator

76000212 76000212

Mounting Options

19" Rack Chassis - 2U for AccelePort C/CON and Digi PORTS-X	76000211	76000211
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Digi EasyPower™ ::

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Part Numbers ::

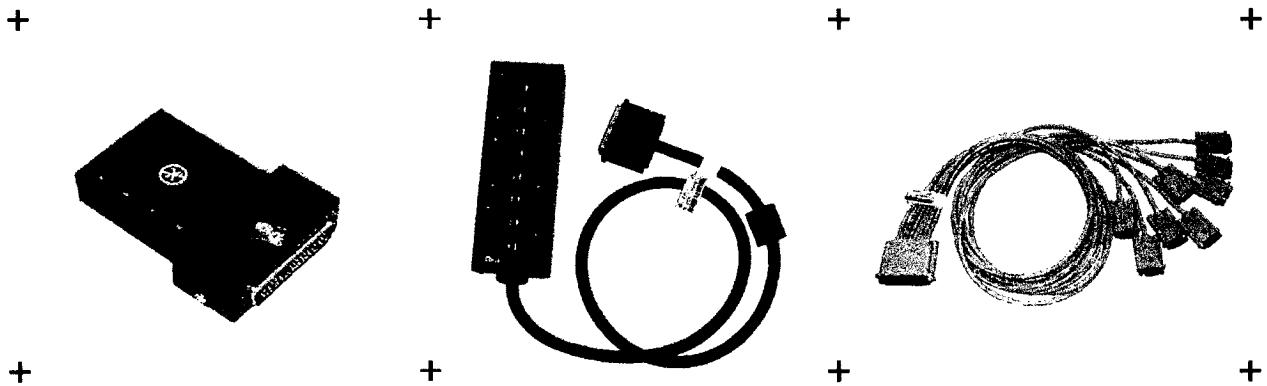
North America International

Power Supplies

Digi EasyPower 1 - 1 power and data port	76000661	76000715
Digi EasyPower 6 - 6 power and data ports		

Options/Accessories :: Cabling, Mounting and More

AccelePort® Xr 920, ClassicBoard™ ::



Part Numbers ::

North America International

Connector Options - RS-232

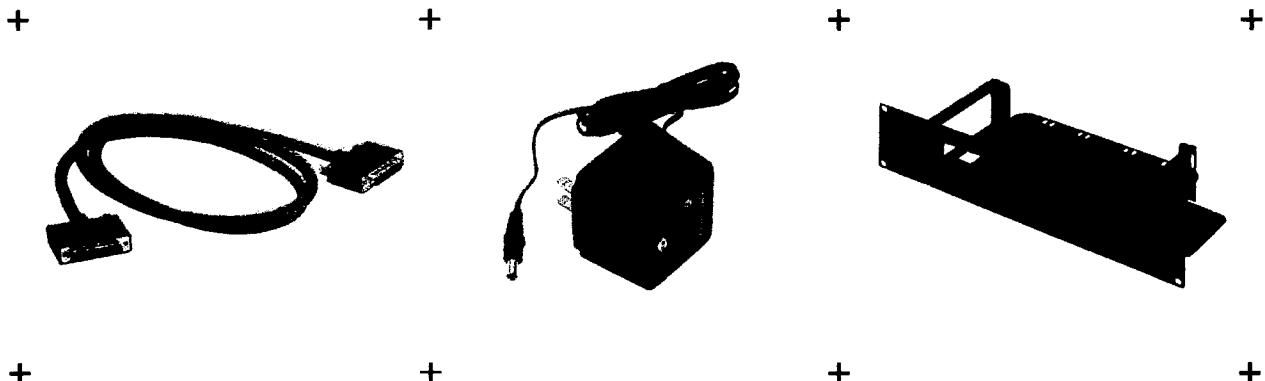
4-Port DB-25M Straight Fan-Out Cable	76000003	76000003
4-Port DB-9M Straight Fan-Out Cable		
4-Port DB-25F Straight Fan-Out Cable		
4-Port DB-9F Straight Fan-Out Cable	76000001	76000001
4-Port DB-25M Straight Connector Box	76000038	76000038
4-Port RJ-45 Connector Box		
4-Port DB-25F Straight Connector Box		
8-Port DB-25M Straight Fan-Out Cable	76000021	76000021
8-Port DB-9M Straight Fan-Out Cable		
8-Port DB-25F Straight Fan-Out Cable	76000019	76000019
8-Port DB-25M Straight Connector Box	76000033	76000033
8-Port RJ-45 Connector Box		
8-Port DB-25F Straight Connector Box		

Connector Options - RS-422

4-Port RS-422 DB-9F Fan-Out Cable - AccelePort Xr, ClassicBoard	76000002	76000002
4-Port RS-422 DB-9M Fan-Out Cable - AccelePort Xr, ClassicBoard		
4-Port RS-422 DB-25M Fan-Out Cable - AccelePort Xr, ClassicBoard	76000178	76000178
8-Port RS-422 DB-9F Fan-Out Cable - AccelePort Xr, ClassicBoard	76000017	76000017
8-Port RS-422 DB-25M Fan-Out Cable - AccelePort Xr, ClassicBoard		

Options/Accessories :: Cabling, Mounting and More

AccelePort® Xem ::



Part Numbers ::

North America International

Cables

10" Daisy Chain Cable	76000708	76000708
60" Daisy Chain Cable		
120" Daisy Chain Cable		

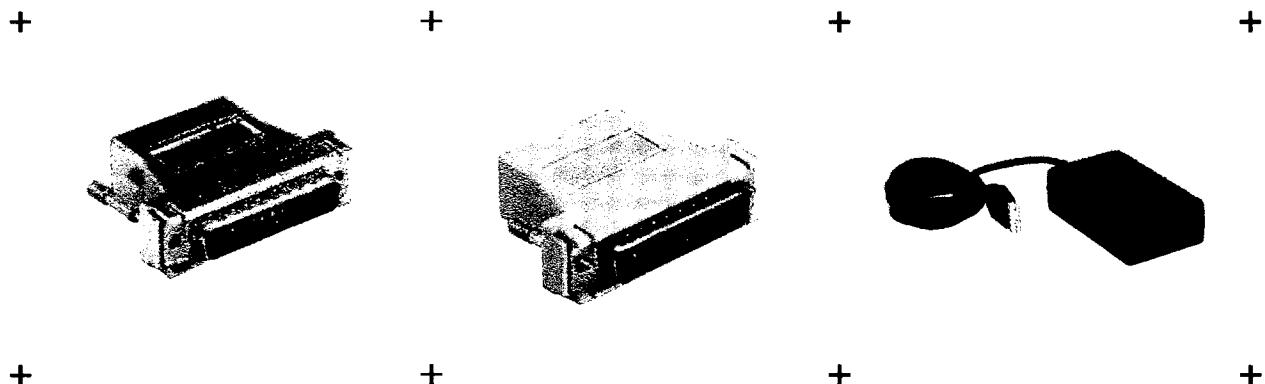
Power Supply

AccelePort Xem Power Supply	76000109	76000321
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Mounting Option

19" Rack Chassis - 2U for AccelePort C/CON and Digi PORT Xem		
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EtherLite®, Edgeport®/8r ::



Part Numbers ::

North America International

Cable Adapters

RJ-45F/DB-25M Straight Adapter (4-pack)	76000451	76000451
RJ-45F/DB-25M Crossover Adapter (4-pack)		
RJ-45F/DB-25F Crossover Adapter (4-pack)		

Power Supply

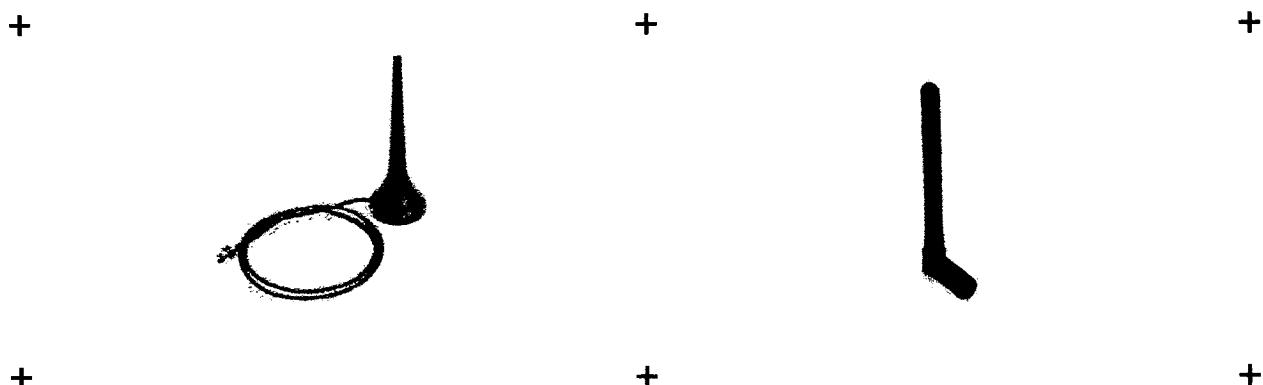
EtherLite/SCSI Universal (120V-240V) Power Supply	76000464	76000464
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Options/Accessories :: Antennas, Extension/Power Cords

Digi Remote Power Manager (Digi RPM) ::

Part Numbers ::	North America	International
Power Cords		
Power Cord - US 15A plug to RPM input		
Power Cord - UK plug to RPM input	N/A	76000819
Power Cord - International RPM output to end device		

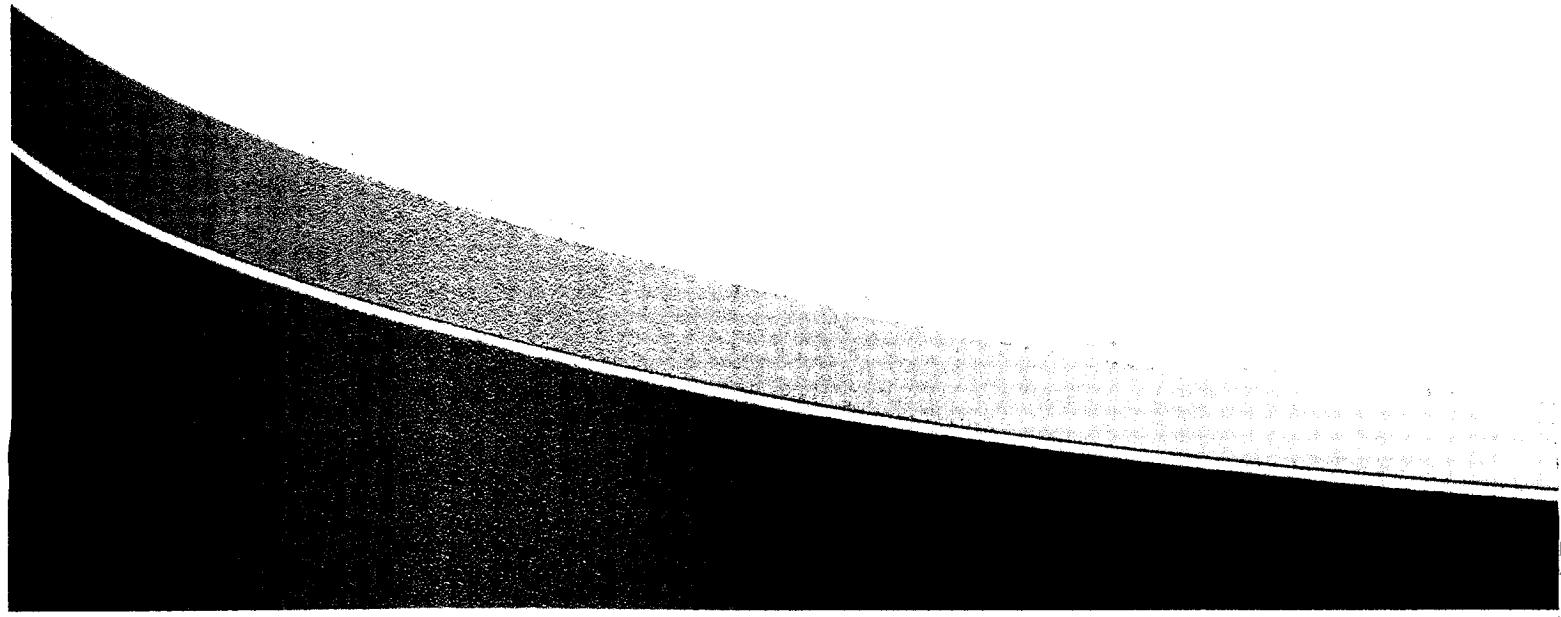
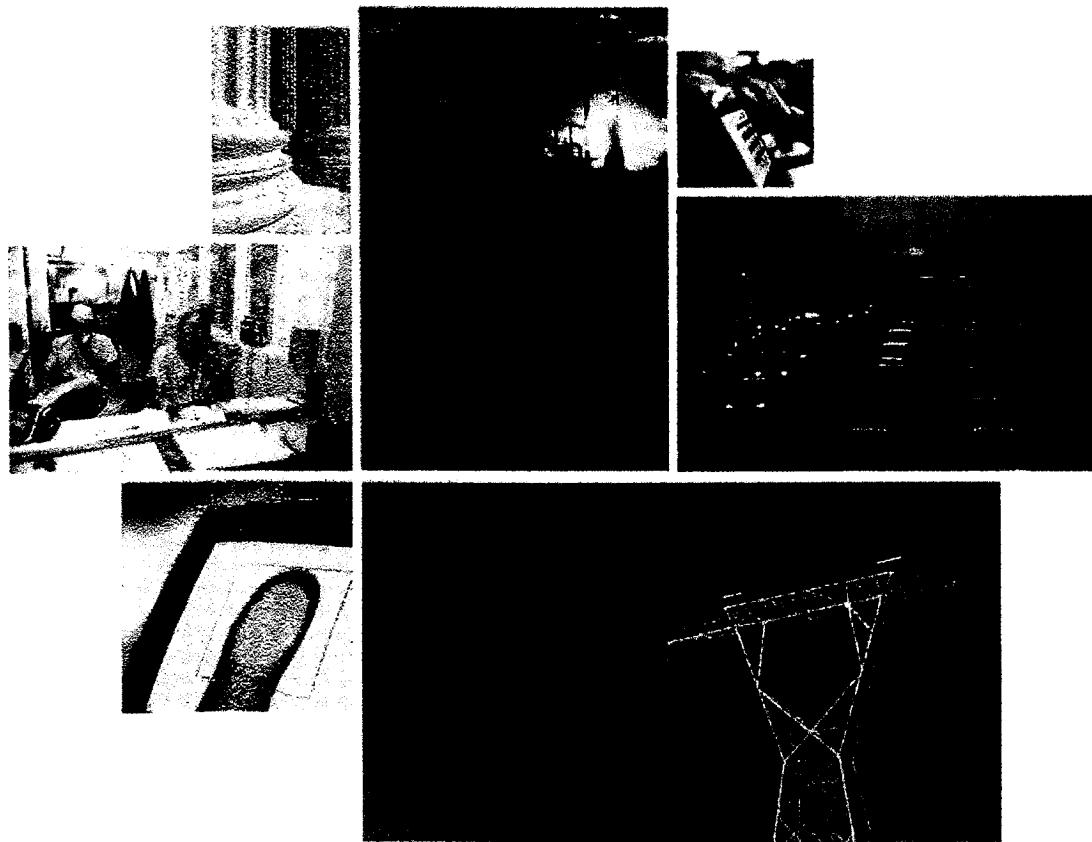
Digi Connect® Wi-EM, Digi Connect® Wi-ME, Digi Connect® Wi-SP ::



Part Numbers ::	North America	International
Desktop Antennas		
2.4 GHz Desktop Antenna (single-unit pack)		
2.4 GHz Desktop Antenna (25-unit pack)	DC-ANT-24DT-25	DC-ANT-24DT-25
2.4 GHz Desktop Antenna (50-unit pack)		
Dipole Antennas		
2.4 GHz Dipole Antenna (single-unit pack)	DC-ANT-24DP	DC-ANT-24DT
2.4 GHz Dipole Antenna (10-unit pack)		
2.4 GHz Dipole Antenna (50-unit pack)	DC-ANT-24DP-50	DC-ANT-24DP-50
Dipole Extension Cords		
30 cm Dipole Antenna Extension Cord (single-unit pack)		
30 cm Dipole Antenna Extension Cord (25-unit pack)	DC-ANT-E-24DP-25	DC-ANT-E-24DP-25
30 cm Dipole Antenna Extension Cord (50-unit pack)		

Digi Connect® RG, Digi Connect® WAN ::

Part Numbers ::	North America	International
Dipole Antenna		
Dual Band Wireless Dipole Antenna 4" - up to 2 dbi gain		
Dual Band Wireless Dipole Antenna 4" (25-unit pack)	DC-ANT-DBDP-25	DC-ANT-DBDP-25
Dual Band Wireless Hi-Gain Antenna 14" - up to 4 dbi gain		
Dual Band Wireless Hi-Gain Antenna 14" (25-unit pack)	DC-ANT-DBHG-25	DC-ANT-DBHG-25



+Industry-Specific Applications ::

By approaching our customers from an industry-specific perspective, we are able to find better solutions to common industry problems. This enables you to improve your business' efficiency, saving valuable time and money that would otherwise be spent on solving critical connectivity challenges. It's easy to find the perfect solution for your application with our variety of network- and bus-based solutions.

Connect Your World

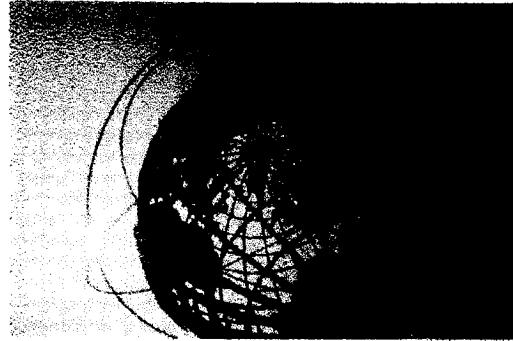
The world is in the early stages of an extraordinary but quiet technology revolution. The advances of personal computers and the Internet have laid the groundwork for the rapidly emerging era of networked devices. Digi's mission is to make device networking easy.

The promise of device networking is this: the closer you can place decision-making to the source of information, the faster you can make good decisions. That translates directly into making your business more productive, more competitive and more profitable. Digi offers solutions that allow businesses to improve efficiency, and save valuable time and money.

Mission-Critical Enterprise Applications

Digi solutions are used in a broad range of applications worldwide. The following pages highlight some of our most successful applications with real world examples for each. Many of these challenges can be solved by more than one Digi solution. If you don't see your application listed, please call us. If it involves device networking, there's a good chance we have done it before!

Making
DEVICE NETWORKING
easy™



+ Now you can...

...establish a truly diverse backup network using wireless/cellular technology with Digi Connect WAN.

...connect RTUs, meters, flow computers or virtually any RS-232/422/485 serial device via POTS phone line with PortServer TS M MEI.

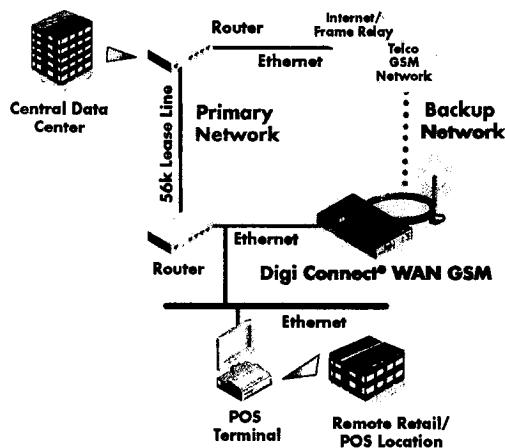
...maintain communications with remote serial devices via a high-speed cellular data network with
Digi Connect WAN or
Digi Connect Remote Gateway.

...perform enterprise management and configuration of groups of devices across remote networks with Digi Connectware Manager.

+Remote Device Management ::

More customers than ever now require that not only the devices in their central data center be connected, but also devices at remote locations. Digi has identified this new opportunity as Remote Device Management.

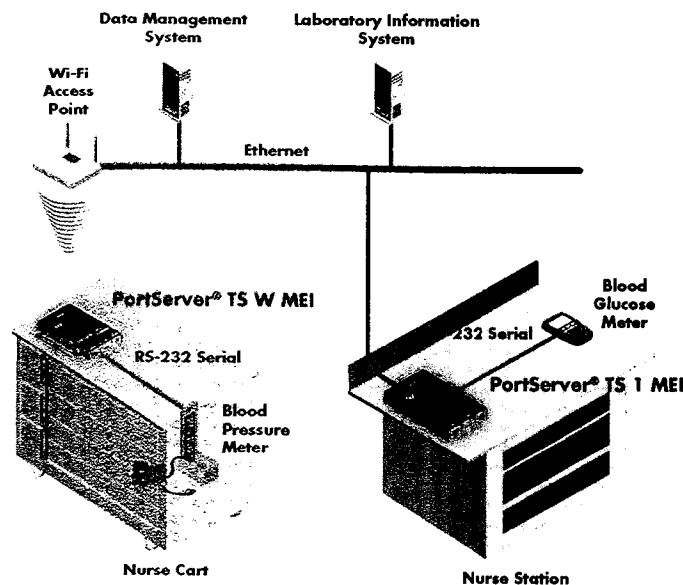
With the Internet as the driving force, the expense and difficulty of the expansion of WANs into remote sites has been sharply reduced, allowing for remote sites and their devices to connect to the corporate network. Digi adds value by networking equipment which is not traditionally thought of as "network-able" because of cost, reliability and infrastructure limitations. Remote Device Management also makes connectivity to groups of remote IP devices easier and more reliable.





+ Medical/Healthcare ::

Today hospitals, clinics and laboratories are facing rapidly growing needs to receive, monitor and access patient information quickly, easily and accurately, whether at the bedside, a nurse's station, or anywhere in the facility. Digi solutions network-enable medical equipment and devices using the hospital's existing Ethernet network to improve patient care.



+ Now you can...

...utilize serial-to-Ethernet connectivity to easily manage the administrative, financial and clinical sides of medical practices with the PortServer TS family of device servers.

...optimize the Point-of-Care (POC) process and ensure accurate billing by integrating POC devices with hospital information systems using PortServer TS 1 MEI and PortServer TS W MEI device servers.

...add embedded wireless functionality to pulse oximeters or other medical devices for remote monitoring of data with Digi Connect Wi-ME embedded device servers.



+ Now you can...

...eliminate power supply bricks for USB devices and transform a basic, low-cost PC into a high performance retail system with the USB Plus Series.

...take the PC out of the checkout lane to create smaller retail stations and simplify operations with AnywhereUSB.

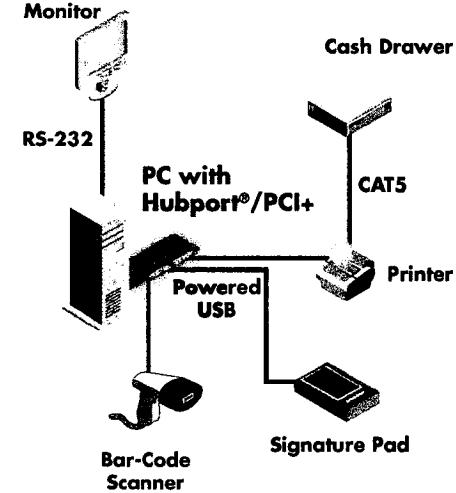
...optimize supply chain efficiency by automating delivery and pick-up of warehouse merchandise with the PortServer TS family.

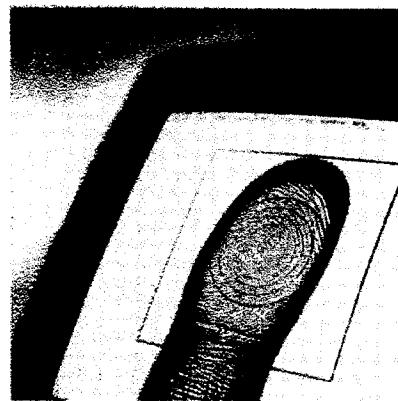
...reliably connect serial peripheral devices to low-profile PCI slots with Digi Neo serial cards.

+Retail/Point-of-Sale ::

Whether you own a single convenience store or a chain of department stores, Digi offers solutions that can help to simplify your retail system architecture. Our solutions enable magnetic card readers, barcode scanners, scales, receipt printers, display poles and other POS peripheral devices to effectively share information across the network.

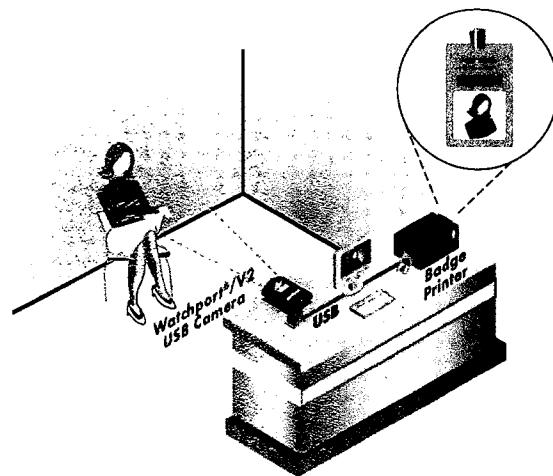
Retail/POS





+Building Automation/Security ::

By focusing on the always-expanding building automation and security market, Digi is able to offer key solutions for critical applications like time and attendance, biometrics, access control, intrusion detection, badging systems and building automation.



+ Now you can...

...add network connectivity to legacy access control panels and have a migration path to a fully embedded solution with the Digi Connect SP customizable device server.

...replace expensive camera and video capture card systems with high quality, easy-to-use, low cost Watchport/V2 USB cameras.

...use a USB biometrics reader for access control, without installing a PC at each doorway with AnywhereUSB.



+ Now you can...

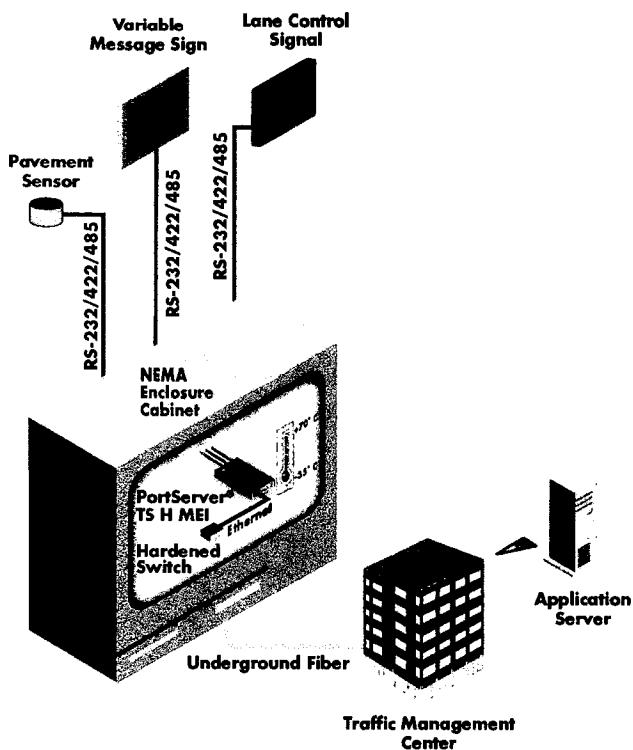
...utilize PortServer TS H MEI device servers with patented RealPort COM redirection technology to easily migrate legacy serial traffic control devices to Ethernet.

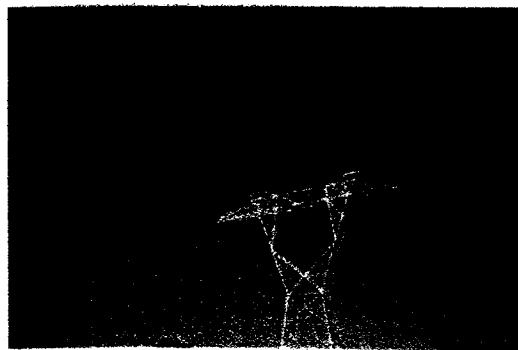
...push TCP/IP from the Traffic Management Center to the roadways and increase flexibility and reliability of the Intelligent Transportation System with the Digi One RealPort device server.

..collect traffic data wirelessly from roadside vehicle counters with Wavespeed/S Bluetooth serial adapters.

+ Traffic Management ::

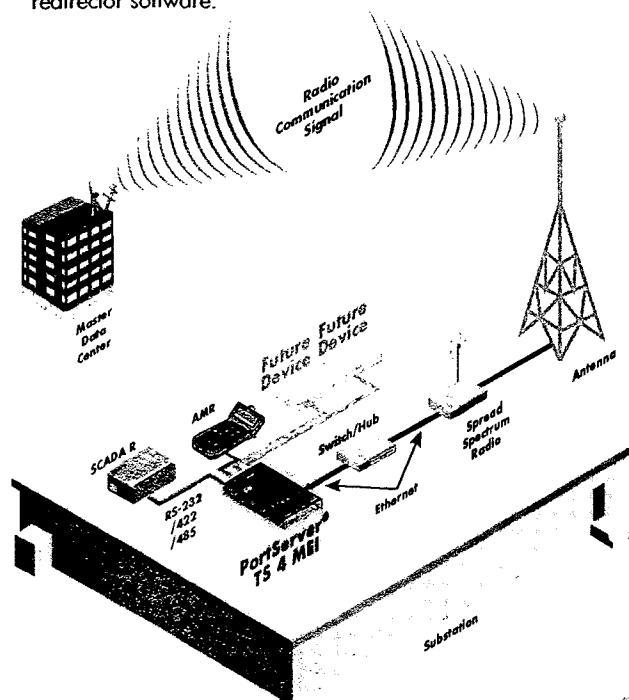
Traffic light coordination. Hazardous road condition alerts. Variable message sign updates. Lane control signals. Emergency vehicle detectors. These are just some of the factors that contribute to the world of traffic management. Digi offers solutions that make it easy to Ethernet-enable the field devices along roadsides and at intersections so that your traffic management center has access to real-time information.





+ Utilities ::

From large Investor Owned Utilities (IOU) to small co-operatives, the utilities industry has recognized the benefits of IP-based communication technologies. At the substation level, however, much of the communication hardware requires an RS-232 serial interface rather than an Ethernet connection. This equipment also utilizes proprietary protocols between the field equipment and the applications like Supervisory Control and Data Acquisition (SCADA), automatic meter reading and load management. Digi solves these compatibility issues with interface converters and patented RealPort COM port redirector software.



+ Now you can...

...network substation serial devices that use Modbus, DNP3 and other proprietary protocols with the Digi One IAP industrial device server.

...create a redundant, scaleable connectivity solution for SCADA servers at the master station with AccelePort Xem asynchronous concentrators.

...gather real-time power metering data from substations across the Ethernet with the PortServer TS 4 MEI device server.

...add modems to a server to communicate with remote C&I power meters with the Rapidport/4 USB-to-multi-modem solution.



+ Now you can...

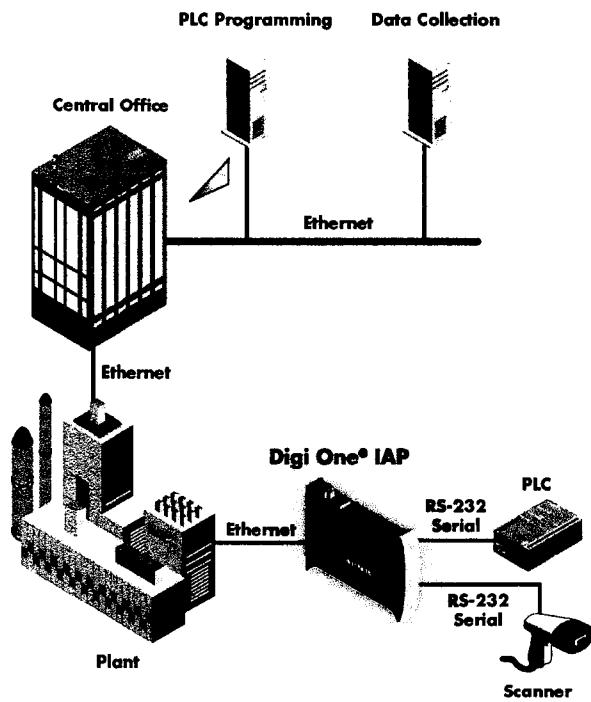
...connect PLCs and bar-code scanners on the manufacturing floor, without expensive PCs and industrial protocol conversion software with the Digi One IAP industrial device server.

...consolidate and remotely manage storage conditions and inventory levels of perishable goods at many locations with the Digi One SP device server.

...Ethernet-enable asynchronous serial devices such as control panels, meters, cameras and status indicators, without impacting production time and costs with the PortServer TS family of device servers.

+Industrial Automation ::

Productivity improvements, inventory management and quality control are challenges found in virtually every manufacturing facility today. From automotive to warehouse environments, the need to attach essential devices (new or legacy) such as PLCs, CNC/DNC equipment, process and quality control equipment, operator displays, scales and many other types of manufacturing equipment is common. Digi solves these challenges by offering solutions designed to address the specific needs of the IA market.





+ Government ::

Digi has served the government space for 17 years, so we understand the special requirements and processes of government agencies. Our solutions can add value to your data center management, call center operations and security initiatives. We provide needs assessment to determine the requirements of your project, technical assistance with the solution, and ongoing technical support and training.

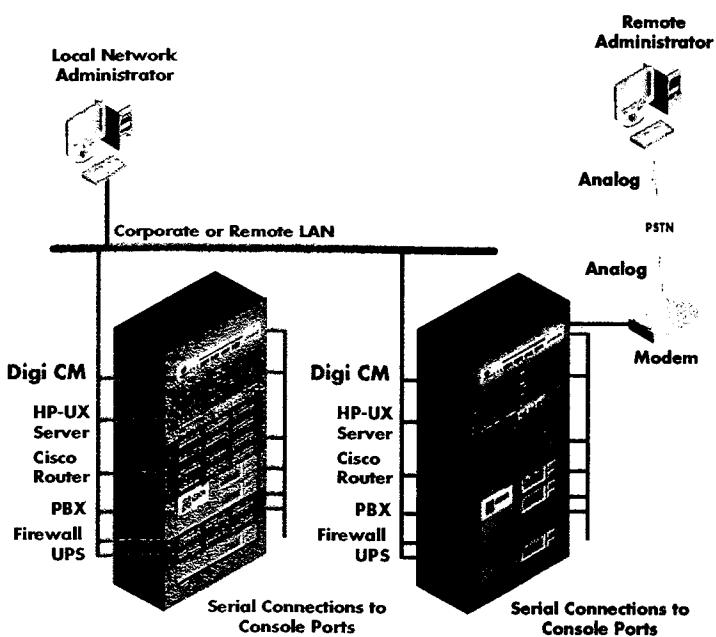
We offer GSA pricing (contract number GSA GS-35F-0351J) and the Digi GSA Online Store to make it easier than ever for our federal government partners and end users to procure products.

+ Now you can...

...securely and efficiently manage data centers from anywhere and at any time with Digi CM secure console servers.

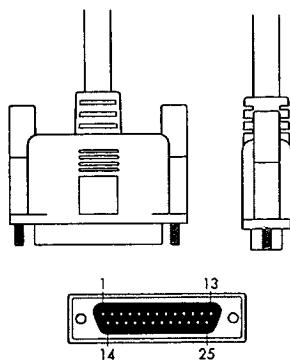
...integrate GPS devices into existing network infrastructure and provide serial surge protection with the PortServer TS 16 terminal server.

...update old computer systems seamlessly from ISA to PCI with AccelePort Xem expandable serial cards.

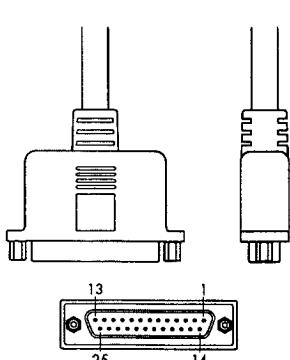


Product Pinouts ::

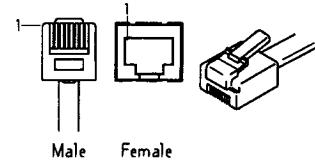
:: DB-25M



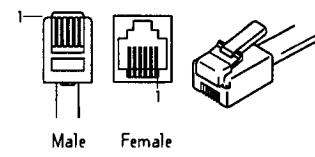
:: DB-25F



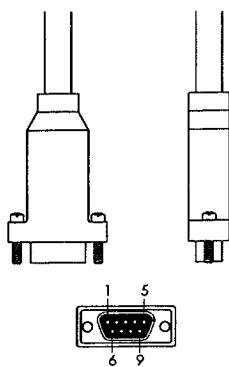
:: RJ-45



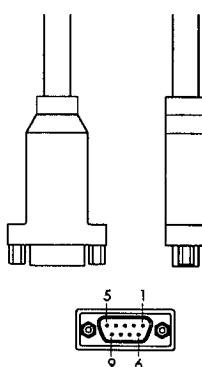
:: RJ-11



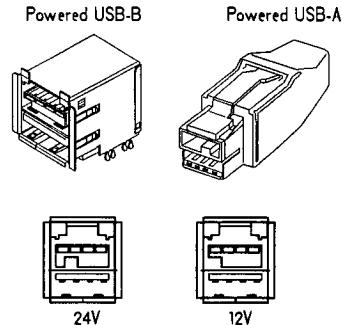
:: DB-9M



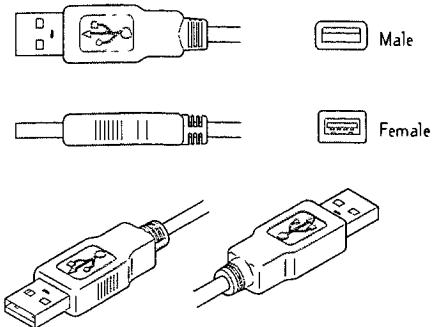
:: DB-9F



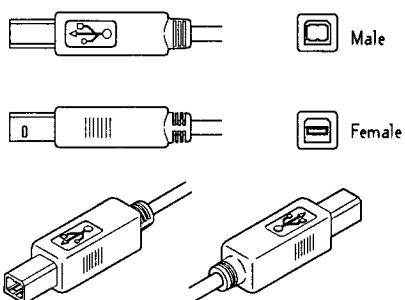
:: Powered USB



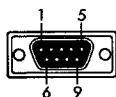
:: USB-A



:: USB-B



Product Pinouts ::



DB-9

		RS-232/422/485 Full Duplex	RS-422 Half Duplex
1	DCD	CTS-	Not used
2	RxD	RxD+	RxD+
3	TxD	TxD+	TxD+
4	DTR	RTS-	Not used
5	SGND	SGND	SGND
6	DSR	RxD-	RxD-
7	RTS	RTS+	Not used
8	CTS	CTS+	Not used
9	RI*	TxD-	TxD-

*Ring Indicator - serial cards only.

:: Product

Device/Terminal Servers:

- Digi One SP
- Digi One IA
- Digi One IAP
- Digi Connect SP
- Digi Connect Wi-SP
- Digi Connect RG
- Digi One IA Modem (RS-232 only)

Bluetooth Wireless Adapters (RS-232):

- Wavespeed/S Class 1
- Wavespeed/S Class 2

USB PlusPower Converters (RS-232):

- Edgeport/42+

Multiport Serial Cards:

- Any DB-9 RS-232 pin assignment

USB-to-Serial Converters (RS-232/422/485):

- Edgeport/4s MEI
- Edgeport/8s MEI

USB-to-Serial Converters (RS-232):

Edgeport Standard:

- Edgeport/1
- Edgeport/2
- Edgeport/4
- Edgeport/412
- Edgeport/416
- Edgeport/8

Edgeport Compact:

- Edgeport/2c
- Edgeport/22c

Edgeport Metal:

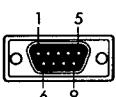
- Edgeport/2m
- Edgeport/4m

Edgeport Industrial:

- Edgeport/2+2i

Edgeport Multi-Interface:

- Edgeport/21
- Edgeport/421



DB-9, RS-422/485

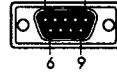
	RS-422
1	Full and Half Duplex
3	TxD+
4	RxD+
6	Echo On and Off
7	TxD+
8	RxD-
9	Line Termination

:: Product

USB-to-Serial Converters:

Edgeport Industrial:

- Edgeport/1i
- Edgeport/2i
- Edgeport/2+2i
- Edgeport/4i
- Edgeport/8i
- Edgeport/8im
- Edgeport/4s MEI
- Edgeport/8s MEI



DB-9, RS-422

1	—
2	RTS+
3	RTS-
4	CTS+
5	CTS-
6	RxD+
7	RxD-
8	TxD+
9	TxD-

:: Product

Device/Terminal Servers:

- All DB-9 RS-422

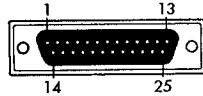
Multiport Serial Cards:

- Any DB-9 RS-422 pin assignment

*SGND = Signal Ground - References all of the signal grounds

CGND = Chasis Ground - References Earth ground

Product Pinouts ::



DB-25, RS-232

	Input	Output
1*	CGND	
2	TxD	
3	RxD	
4	RTS	
5	CTS	
6	DSR	
7	SGND	
8	DCD	
20	DTR	
22	RI	

*Any pin not shown is unused.

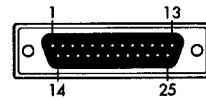
:: Product

- Multiport Serial Cards:**
- Any DB-25 RS-232 pin assignment

USB-to-Serial Converters:

Edgeport Standard:

- Edgeport/4/DB-25
- Edgeport/412/DB-25
- Edgeport/416/DB-25
- Edgeport/8/DB-25



DB-25, RS-422

1	—
2	TxD+
3	RxD+
4	RTS+
5	CTS+
13	CTS-
14	TxD-
16	RxD-
19	RTS-

:: Product

- Multiport Serial Cards:**
- Any DB-25 RS-422 pin assignment

**Any pin not shown is unused.



RJ-45

	Signal RS-232	Signal RS-422	Signal RS-485
1	RTS	RTS	No connect**
2	DSR	RxD-	No connect**
3	DCD	DCD*	No connect**
4	RxD	RxD+	TxD+/RxD+
5	TxD	TxD+	TxD-/RxD-
6	SGND	SGND	SGND
7	DTR	TxD-	No connect**
8	CTS	CTS*	No connect**

*RS-232 signals on EtherLite RS-422 only.

**Does not connect any signal.



RJ-45

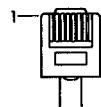
1	CTS
2	DSR
3	RxD
4	SGND
5	DCD*
6	TxD
7	DTR
8	RTS

:: Product

- Console Servers:**
- Digi CM

*Note: Inbound signal can also be used as a second ground.

Product Pinouts ::



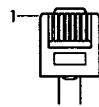
RJ-45

1	RTS
2	DTR
3	TxD
4	SGND
5	DCD*
6	RxD
7	DSR
8	CTS

:: Product

Power Management:

- Digi RPM



RJ-45 Ethernet

1	TxD+
2	TxD-
3	RxD+
4	EPWR+
5	EPWR+
6	RxD-
7	EPWR-
8	EPWR-

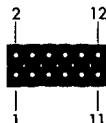
:: Product

Embedded Modules:

- Digi Connect ME
- Digi Connect EM

*Pins 4, 5, 7, 8
not used by
Digi Connect EM.

*Note: Inbound signal can also
be used as a second ground.



Power and Serial Interface

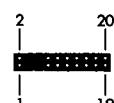
Pin Assignments

	Pin #	Assignment
1		+3.3V
2		SGND
3		RxD/GPIO-7
4		TxD/GPIO-6
5		RTS/GPIO-4/SPI_CLK
6		DTR/GPIO-5
7		CTS/GPIO-2
8		DCD/GPIO-1/SPI_EN
9		DSR/GPIO-3
10		RTS
11		RxD/GPIO-9
12		TxD/GPIO-8

:: Product

Embedded Modules:

- Digi Connect EM
- Digi Connect Wi-EM



Power and Serial Interface

Pin Assignments

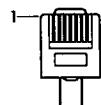
	Pin #	Assignment
1		VETH+
2		VETH-
3-6		—
7		RxD
8		TxD
9		RTS/GPIO 4
10		DTR/GPIO 5
11		CTS/GPIO 2
12		DSR/GPIO 3
13		DCD/GPIO 1
14		RESET
15		+3.3V
16		SGND
17-19		—
20		/INIT

:: Product

Embedded Modules:

- Digi Connect ME
- Digi Connect Wi-ME

Product Pinouts ::



RJ-45

		Standard RJ-45 Pinout RS-232/100Base-T 1/2-Wire			
		TxD	RS-232	100Base-T	RS-232
1*	2*	RI	TxD-	—	—
2	3	DSR	RxD-	RxD-	Data-
3	4	RTS	RTS+	TxD+	—
4	5	CGND	CGND	CGND	CGND
5	6	TxD	TxD+	—	—
6	7	RxD	RxD+	RxD+	Data+
7	8	SGND	SGND	SGND	SGND
8	9	CTS	CTS+	—	—
	10	DTR	RTS-	TxD-	—
		DCD	CTS-	—	—

*Using Alt-Pin, the DSR and DCD signals can be swapped. Alt-Pin is a software option in the driver.

:: Product

Device/Terminal Servers:

- PortServer TS MEI 1/2/4/8/16
- PortServer TS 1/2/4/8/16 (RS-232 only)
- Digi One RealPort (RS-232 only)

Multiport Serial Cards

- Any RJ-45 pin assignment

For a listing of cable and accessory pinouts go to
www.digi.com/support

Glossary ::

10/100Base-T

Ethernet running on Unshielded Twisted Pair (UTP) cable with the amount of data transmitted between two points in a given amount of time being either 10 Mbps or 100 Mbps.

AES (Advanced Encryption Standard)

Encryption algorithm that uses 128-, 192- and 256-bit keys to secure sensitive data. Originally developed for unclassified U.S. Government materials, it has gained popularity in the private sector for applications such as online banking and credit card transactions.

ARP-Ping

An easy and universal method to assign an IP address to an unconfigured Digi device server. The network administrator manually creates an entry for the particular device in the ARP table of a router or host system in order to map the physical address of the device to a specific IP address. After the ARP entry has been successfully created, the administrator simply pings the device server, which in turn automatically assumes the IP address provided in the packets generated by the ping command.

Automatic Device Recognition

Digi CM feature that makes configuration and management of console servers easier by detecting which type of server, router or switch is connected to the unit.

CHAP (Challenge-Handshake Authentication Protocol)

Standards-based security protocol commonly used to verify remote access logons by mobile and remote users; it will authenticate the user. CHAP validates users or systems with a challenge that requires an appropriate response. If the caller supplies proper credentials, the logon is validated and the WAN link is established. The most important feature of CHAP is that passwords are never sent over the line.

DHCP (Dynamic Host Configuration Protocol)

Communications protocol that enables network administrators to centrally manage and automate the assignment of IP addresses.

HTTP (Hypertext Transfer Protocol)

Set of rules for exchanging files on the web. When the browser user enters file requests, the browser builds an HTTP request and sends it to the IP address indicated by the URL. The HTTP daemon in the destination server machine receives the request and, after any necessary processing, returns the requested file.

HTTPS (Hypertext Transfer Protocol Secure)

Opens a secure hypertext transfer session with the specified site address. HTTPS is HTTP layered over the Secure Sockets Layer (SSL) protocol to provide secure data transfer between computers over the web using encrypted data streams. The successful use of the HTTPS protocol requires a secure server to handle the request.

Industrial Ethernet Protocols

Defines how the serial data of an industrial device is transferred over the network to a host machine server such as an HMI system. Digi supports the following protocols on the Digi One IAP:

- Modbus/TCP
- Allen-Bradley Ethernet
- EtherNet/IP

Industrial Serial Protocols

Define the rules for serial/industrial device communication between Digi device servers and PLCs or other equipment with a serial port. The Digi One IAP supports the following serial protocols:

- Modbus RTU/ASCII
- Omron: FINS, CompoWay/F and Hostlink
- DF1 (full- and half-duplex)
- Custom/user-defined
- ASCII

Kerberos

Secure method for authenticating a request for a service in a computer network. Kerberos lets a user request an encrypted "ticket" from an authentication process that can then be used to request a particular service from a server. The user's password does not have to pass through the network. A version of Kerberos (client and server) can be downloaded from MIT or you can buy a commercial version.

LDAP (Lightweight Directory Access Protocol)

Software protocol for enabling anyone to locate organizations, individuals, and other resources such as files and devices in a network, whether on the public Internet or on a corporate intranet. LDAP is a "lightweight" (smaller amount of code) version of Directory Access Protocol (DAP), which is part of X.500, a standard for directory services in a network. LDAP is lighter because in its initial version it did not include security features. LDAP originated at the University of Michigan and has been endorsed by at least 40 companies. Netscape includes it in its latest Communicator suite of products. Microsoft includes it as part of what it calls Active Directory in a number of products including Outlook Express. Novell's NetWare Directory Services interoperates with LDAP. Cisco also supports it in its networking products.

MEI (Multi-Electrical Interface)

Digi term meaning the serial interface supports RS-232, 422 and 485.

Modbus/TCP

Family of vendor-neutral communication protocols for the supervision and control of automation equipment. Modbus/TCP is a specific variant covering the use of Modbus messaging in a TCP/IP network environment, such as the intranet or the Internet.

Glossary ::

Modem Emulation

Enables a networked Digi device server or terminal server to act as a modem to send and receive data over an IP network instead of a PSTN.

Multi-Master

Ability for the Digi device server to handle multiple network masters for the serial device. The multiple masters can run different protocols. For example, one PLC could have an HMI system as a master using RealPort, while an administrator uses TCP sockets to download configuration information.

PAP (Password Authentication Protocol)

Standards-based security protocol commonly used to verify remote access logons by mobile and remote users; it will authenticate the user. The PAP protocol transmits both the user ID and the password in the clear, making it possible for an eavesdropper to capture logon credentials. This information is sent to the target device upon initiation of the call. The target then validates the information in a central PAP database.

Pass-Through Port

Second serial port on the Digi One IAP device server enables a user to connect additional serial devices locally to a PC (or other serial device) without disconnecting the PLC from the Ethernet.

PCMCIA

(Personal Computer Memory Card International Association)
A PCMCIA card is a credit card-size memory or I/O device that connects to a personal computer, usually a notebook or laptop computer. Probably the most common example of a PCMCIA card is the 28.8 Kbps modem for notebook computers. The PCMCIA was organized in 1989 to promote standards for both memory and I/O integrated circuit cards. The PCMCIA 2.1 Standard was published in 1993. As a result, PC users can be assured of standard attachments for any peripheral device that follows the standard. The initial standard and its subsequent releases describe a standard product, the PC Card. A PCMCIA card has a 68-pin connector that connects into a slot in the PC.

PPP (Point-to-Point Protocol)

Protocol for communication between two computers using a serial interface, typically a personal computer connected by phone line to a server. For example, your Internet service provider may supply you with a PPP connection so that the provider's servers pass your requests on to the Internet and forward the responses back to you. PPP uses IP and is designed to handle others.

Port Buffering/Port Logging

Port buffering allows data from each port to be captured and stored within the console management appliance to allow a future examination of the events that occurred on a specific port prior to an alarm or failure. Port logging saves buffer contents to network drives for review and analysis.

Powered Ethernet

Device power provided by the Ethernet connection (802.3af) eliminates the need for a separate power supply.

RADIUS (Remote Authentication Dial-In User Service)

Allows remote access to a central server system and authenticates dial-in users. Allows increased security for remote access connections. When the PortServer uses a RADIUS server, it authenticates users by first searching its own user table and then, if the user is not found, searching the RADIUS server.

RARP (Reverse Address Resolution Protocol)

Protocol by which a physical machine in a Local Area Network can request to learn its IP address from a gateway server's Address Resolution Protocol table or cache. A network administrator creates a table in a local area network's gateway router that maps the physical machine or Media Access Control (MAC) addresses to corresponding Internet Protocol addresses.

RealPort®

Patented Digi software application provides local serial port functionality (Real TTY for UNIX and Native COM port functionality for Microsoft environments).

RealPort® USB (USB Over IP®)

Patent-pending Digi software application provides local USB port functionality over an IP network.

RealPort® with Encryption

Patent-pending technology takes RealPort a step further by offering a secure connection between the COM/TTY port and a device server. TCP/IP packets are encapsulated in an SSL connection and encrypted via AES to prevent data snooping across the network.

RFC 2217

An extension of the Telnet protocol used to access serial devices over the network. It enables applications to set the parameters of remote serial ports (baud rate, flow control, etc.), detect line signal changes, as well as receive and transmit data.

RS-232 (EIA-232)

Also known as V.24. Most commonly used serial data communications standard for low speed communications. Defines the electrical characteristics and physical interface for serial data communications using unbalanced signals including flow control. Supports speeds of 150 Kbps and higher, with cable distances typically 150 feet or less.

RS-422 (EIA-422)

Also known as V.11. Defines electrical characteristics for balanced serial signals. Does not define the physical interface. Supports greater distances (to 1000 feet) and noise immunity than RS-232.

Glossary ::

RS-485 (EIA-485)

Derived from RS-422 and has same distance and noise immunity support; utilizes tri-state line drivers to support multi-drop configuration in both 4- and 2-wire (full- and half-duplex) modes.

SPP (Serial Port Profile)

Software protocol supporting transfer of serial port data over Bluetooth® wireless.

SNMP (Simple Network Management Protocol)

Protocol governing network management and the monitoring of network devices and their functions. Included in the SNMP model are Network Management Stations (applications that enable administrators to control and monitor network entities) and Management Agents (components on actual network devices which send information to the Network Management Stations). Management Information Bases provide information about the managed objects (such as the data rate of an interface) and can be set or monitored using NMS.

SSH (Secure Shell)

UNIX-based command interface and protocol for securely getting access to a remote computer. It is widely used by network administrators to control web and other kinds of servers remotely. SSH commands are encrypted and secure in several ways. Both ends of the client/server connection are authenticated using a digital certificate, and encryption protects passwords.

SSL (Secure Sockets Layer)

Commonly used protocol for managing the security of a message transmission on the Internet. SSL ensures that the connection is private and secure by providing authentication and encryption services.

Socket Services

Sockets are a simple method of communication between a client and a server on a network. The client actively initiates a connection to a server and the server accepts the connections from the client. The programming interface used for socket communication is called Socket Services and is available in most network operating systems, including Linux, UNIX and Microsoft Windows. Socket services can be used to enable a software application to communicate with a serial device that has been network-enabled using a device server. The actual specifics of the client/server relationship are dependent on the application. In other words, a device server can act as client and a software application as a server, and vice versa.

Static IP

An IP address that has been explicitly assigned to a specific device or system in its network configuration. The change of a statically assigned IP address requires manual reconfiguration of the network device or system.

Telnet/Reverse Telnet

The initiation of a telnet session from a computer system to one of its remote users/clients. Sometimes called direct telnet. A user/client who wishes to access a remote system initiates a telnet session to the networking systems. The user must have permission and is prompted to provide a user name and password. Reverse telnet is used to monitor a serial device, such as a console port of a router from another networked computer system.

UDP/Multicast

Digi's multicasting feature sends out a data packet to multiple destinations on a network. Digi products support up to 64 recipients. The packets are sent out one at a time to each recipient listed on the table.

USB PlusPower

Powered USB technology that supports providing device power over the USB bus for 5V, 12V or 24V peripheral devices.

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Description	Page #
70001167	70001168	AccelePort C/X Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 Concentrator	99
70001171	70001172	AccelePort C/X Universal PCI (3.3V & 5V) 8-Port RS-232 RJ-45 Concentrator	99
70001175	70001176	AccelePort C/X Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 1U Rack	99
70001193	70001193	AccelePort Xr Universal PCI (3.3V & 5V) 4-Port RS-422 w/ DB-25M Cable	97
70001194	70001194	AccelePort Xr Universal PCI (3.3V & 5V) 4-Port RS-422 w/ DB-9F Cable	97
70001199	70001199	AccelePort Xr Universal PCI (3.3V & 5V) 8-Port RS-422 w/ DB-25M Cable	97
70001200	70001200	AccelePort Xr Universal PCI (3.3V & 5V) 8-Port RS-422 w/ DB-9F Cable	97
70001201	70001201	AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 Concentrator	101
70001203	70001203	AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 DB-25 Concentrator	101
70001206	70001206	AccelePort Xem Universal PCI (3.3V & 5V) 8-Port RS-232 RJ-45 Concentrator	101
70001208	70001208	AccelePort Xem Universal PCI (3.3V & 5V) 8-Port RS-232 DB-25 Concentrator	101
70001229	70001230	AccelePort C/X Universal PCI (3.3V & 5V) 8-Port RS-232 DB-25 Concentrator	99
70001231	70001232	AccelePort C/X Universal PCI (3.3V & 5V) 16-Port RS-232 DB-25 Concentrator	99
70001361	70001361	AccelePort Xr 920 Universal PCI (3.3V & 5V) 4-Port RS-232 w/ DB-25M Cable	97
70001362	70001362	AccelePort Xr 920 Universal PCI (3.3V & 5V) 8-Port RS-232 w/ DB-25M Cable	97
70001385	70001385	AccelePort C/CON RS/6000 Compatibility Upgrade Kit (for 16-port C/CON only)	99, 114
70001427	70001528	EtherLite 160 - 16 ports, RS-232, RJ-45	22
70001428	70001529	EtherLite 162 - 16 ports, RS-422, RJ-45	22
70001429	70001533	EtherLite 32 - 32 ports, RS-232, RJ-45	22
70001430	70001531	EtherLite 2 - 2 ports, RS-232, RJ-45	22
70001432	70001532	EtherLite 2 - 2 ports, RS-422, RJ-45	22
70001548	70001548	AccelePort Xp Universal PCI (3.3V & 5V) 8-Port RS-232 w/DB-25 Cable	95
70001549	70001549	AccelePort Xp Universal PCI (3.3V & 5V) 4-Port RS-232 w/DB-25 Cable	95
70001550	70001550	AccelePort Xp Universal PCI (3.3V & 5V) 16-Port RS-232 w/DB-25 Rack	95
70001557	70001557	AccelePort Xp Universal PCI (3.3V & 5V) 16-Port RS-232 w/RJ-45 Rack	95
70001559	70001559	AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-422 DB-25 Concentrator	101
70001683	70001706	EtherLite 2 - 2 ports, RS-485, RJ-45	22
70001733	70001738	PortServer TS 16 - 16 ports, RS-232	21
70001734	70001741	PortServer TS 8 - 8 ports, RS-232	21
70001742	70001743	PortServer TS 16 Rack - 16 ports, RS-232, 19" rack	21
70001747	70001747	PortServer TS 16, 48VDC - 16 ports, RS-232	21
70001749	70001752	Digi One RealPort - 1 port	19
70001750	70001753	PortServer TS 2 - 2 ports	19
70001751	70001754	PortServer TS 4 - 4 ports	19
70001757	70001757	AccelePort Xem Universal PCI (3.3V & 5V) 16-Port RS-232 RJ-45 1U 19" Rack	101
70001767	70001768	EtherLite 80 - 8 ports, RS-232, RJ-45	22
70001777	70001777	Digi One IAP	29
70001805	70001832	PortServer TS 1 MEI - 1 port	20
70001806	70001833	PortServer TS 2 MEI - 2 ports	20
70001807	70001834	PortServer TS 4 MEI - 4 ports	20
70001851	70001852	Digi One SP - 1 port	18
70001862	70001862	Digi One IA - 1 port	30
70001876	70001876	Digi One IA Modem - 1 port	32
70001885	70001885	PortServer TS 8, 48VDC - 8 ports, RS-232	21
70001898	70001985	PortServer TS 1 M MEI - 1 port	25
70001899	70001986	PortServer TS 3 M MEI - 3 ports	25
70001917	70001917	PortServer TS 1 H MEI - 1 port	23
70001918	70001918	PortServer TS 2 H MEI - 2 ports	23
70001919	70001919	PortServer TS 4 H MEI - 4 ports	23

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Description	Page #
70001928	70001929	PortServer TS 16 Enterprise Rack - 16 ports, RS-232, 19" rack	21
70001947	70001947	Digi Neo Universal PCI (3.3V & 5V) 8-Port w/DB-25M Fan-out Cables	103
70001954	70001955	PortServer TS 1 W MEI - 1 port	24
70001956	70001957	PortServer TS 2 W MEI - 2 ports	24
70001958	70001959	PortServer TS 4 W MEI - 4 ports	24
70001965	70001965	Digi Neo Universal PCI (3.3V & 5V) Low Profile w/2-Port DB-9M Fan-Out Cable	103
70001978	70001980	PortServer TS 16 MEI - RS-232/422/485	21
70001979	70001981	PortServer TS 8 MEI - 8 ports, RS-232/422/485	21
70001988	70001991	PortServer TS 1 P MEI - 1 port	26
70001989	70001992	PortServer TS 2 P MEI - 2 ports	26
70001990	70001993	PortServer TS 4 P MEI - 4 ports	26
70001999	70002000	Digi One SP IA - 1 port	31
70002008	70002008	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 8-Port RS-232 w/DB-25 Concentrator	101
70002009	70002009	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 8-Port RS-232 w/RJ-45 Concentrator	101
70002010	70002010	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-232 w/DB-25 Concentrator	101
70002011	70002011	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-232 w/RJ-45 Concentrator	101
70002012	70002012	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-232 w/RJ-45 1U Rack	101
70002017	70002017	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile 16-Port RS-422 w/DB-25 Concentrator	101
76000001	76000001	4-Port DB-9F Straight Fan-Out Cable	115
76000002	76000002	4-Port RS-422 DB-9F Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000003	76000003	4-Port DB-9M Straight Fan-Out Cable	97, 105, 115
76000004	76000004	4-Port RS-422 DB-9M Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000006	76000006	4-Port DB-25F Straight Fan-Out Cable	97, 105, 115
76000008	76000008	4-Port DB-25M Straight Fan-Out Cable	97, 105, 115
76000014	76000014	8-Port RS-422 DB-9F Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000017	76000017	8-Port RS-422 DB-9M Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000019	76000019	8-Port DB-25F Straight Fan-Out Cable	97, 105, 115
76000021	76000021	8-Port DB-25M Straight Fan-Out Cable	97, 105, 115
76000026	76000026	4-Port DB-25F Straight Connector Box	115
76000027	76000027	8-Port DB-25F Straight Connector Box	115
76000030	76000030	4-Port DB-25M Straight Connector Box	97, 105, 115
76000031	76000031	8-Port DB-25M Straight Connector Box	97, 105, 115
76000033	76000033	8-Port RJ-45 Connector Box	97, 105, 115
76000038	76000038	4-Port RJ-45 Connector Box	97, 105, 115
76000067	76000068	AccelePort C/CON 16-Port RS-232 RJ-45	99
76000069	76000070	AccelePort C/CON 16-Port RS-232 DB-25	99
76000071	76000107	AccelePort C/X Fiber Link Adapter	99, 114
76000073	76000073	Digi PORTS/Xem 16-port RS-232 DB-25 Concentrator	101
76000074	76000074	Digi PORTS/Xem 16-port RS-232 RJ-45 Concentrator	101
76000109	76000321	AccelePort Xem Power Supply	101, 116
76000120	76000120	Digi PORTS/Xem 8-port RS-232 DB-25 Concentrator	101
76000122	76000122	Digi PORTS/Xem 8-port RS-232 RJ-45 Concentrator	101
76000129	76000129	24" RJ-45/DB-25M Straight Cable	110
76000147	76000158	AccelePort C/CON 16-Port RS-232 RJ-45 1U Rack	99
76000178	76000178	4-Port RS-422 DB-25M Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000179	76000179	8-Port RS-422 DB-25M Fan-Out Cable - AccelePort Xr, ClassicBoard	105, 115
76000195	76000195	48" RJ-45/DB-25M Straight Cable	110
76000198	76000198	24" RJ-45/DB-25F Straight Cable	110
76000199	76000199	48" RJ-45/DB-25F Straight Cable	110

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Description	Page #
76000200	76000200	24" RJ-45/DB-9F Straight Cable	110
76000201	76000201	48" RJ-45/DB-9F Straight Cable	110
76000211	76000211	AccelePort C/X Host Adapter to RS-232 Sync Modem Cable	99, 114
76000212	76000212	AccelePort C/X Host RS-232 Sync Modem to Remote Concentrator	99, 114
76000216	76000217	AccelePort C/CON 8-Port RS-232 RJ-45	99
76000218	76000219	AccelePort C/CON 8-Port RS-232 DB-25	99
76000238	76000238	48" RJ-45/DB-25M Crossover Cable	110
76000239	76000239	24" RJ-45/DB-9M Straight Cable	110
76000240	76000240	48" RJ-45/DB-9M Straight Cable	110
76000264	76000264	48" RJ-45/DB-9M Crossover Cable	110
76000351	76000694	AccelePort C/CON Power Supply	99, 114
76000450	76000450	RJ-45F/DB-25M Straight Adapter (4-pack)	116
76000451	76000451	RJ-45F/DB-25M Crossover Adapter (4-pack)	116
76000461	76000461	RJ-45F/DB-9F Crossover Adapter (4-pack)	116
76000464	76000464	EtherLite/SCSI Universal (120V-240V) Power Supply	116
76000522	76000522	4-Port DB-25M Straight Fan-Out Cable	95, 103, 113
76000523	76000523	8-Port DB-25M Straight Fan-Out Cable	95, 103, 113
76000524	76000524	4-Port DB-25M Straight Connector Box	95, 103, 113
76000525	76000525	8-Port DB-25M Straight Connector Box	95, 103, 113
76000526	76000526	4-Port RJ-45 Straight Connector Box	95, 103, 113
76000527	76000527	8-Port RJ-45 Straight Connector Box	95, 103, 113
76000528	76000528	4-Port DB-9M Straight Fan-Out Cable	95, 103, 113
76000529	76000529	8-Port DB-9M Straight Fan-Out Cable	95, 103, 113
76000530	76000530	4-Port DB-9F Straight Fan-Out Cable	95, 103, 113
76000531	76000531	8-Port DB-9F Straight Fan-Out Cable	95, 103, 113
76000532	76000532	4-Port DB-25F Straight Fan-Out Cable	95, 103, 113
76000533	76000533	8-Port DB-25F Straight Fan-Out Cable	95, 103, 113
76000534	76000534	HD-68M to DB-78F Converter (use with legacy accessories)	95, 103, 113
76000535	76000548	Digi PORTS/Xem 16-port RS-422 DB-25 Concentrator	101
76000559	76000559	10' HD-68 Pin Cable	113
76000560	76000560	4-Port DB-9M Straight Connector Box	95, 103, 113
76000561	76000561	8-Port DB-9M Straight Connector Box	95, 103, 113
76000566	76000566	RJ-45 10-Pin to RJ-45 8-Pin Modem Cable	110
76000587	76000587	16-Port 2U 19" Rack w/DB-25M Connectors	95, 103, 113
76000588	76000588	16-Port 1U 19" Rack w/RJ-45 Connectors	95, 103, 113
76000611	76000611	19" Rack Chassis - 2U for AccelePort C/CON and Digi PORTS/Xem	99, 101, 114, 116
76000617	76000617	Digi PORTS/Xem 16-port RS-232 RJ-45 1U 19" Rack Concentrator	101
76000631	76000631	6' RJ-45 to Sun Netra/Cisco RJ-45 Cable	110
76000632	76000632	6' Bundle of 8 RJ-45 to Sun Netra/Cisco RJ-45 Cable	110
76000633	76000633	6' Bundle of 16 RJ-45 to Sun Netra/Cisco RJ-45 Cable	110
76000640	76000640	Wall Mount Bracket with Power Cord Holder - Digi Connect WAN, Digi Connect RG, PortServer TS 1/2/4 (RS-232/422/485 only)	111
76000641	76000641	Wall Mount Bracket - Digi One RealPort, PortServer TS 1/2/4	111
76000642	76000642	48" DB-9F/DB-9F Crossover Cable (works with all DB-9 products)	110
76000643	76000643	24" RJ-45/DB-25M Printer Cable	110
76000644	76000644	48" RJ-45/DB-25F Crossover Cable	110
76000645	76000645	48" RJ-45/DB-9F Crossover Cable	110
76000654	76000654	Replacement 120-240VAC Input Power Supply	111
76000660	76000714	Digi EasyPower 1 - 1 power and data port	26, 114

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Descr	Page #
76000661	76000715	Digi EasyPower 6 - 6 power and data ports	26, 114
76000662	76000662	Wall Mount Bracket Kit - Digi One SP	111
76000663	76000663	Digi Cable Evaluation Kit	110
76000670	76000670	RJ-45F/DB-25M Modem Adapter (8-pack)	55, 111
76000671	76000671	RJ-45F/DB-9F Console Adapter (8-pack)	55, 111
76000672	76000672	RJ-45F/DB-25M Console Adapter (8-pack)	55, 111
76000673	76000673	RJ-45F/DB-25F Console Adapter (8-pack)	55, 111
76000676	76000676	Rack Mount Shelf - PortServer TS (4 units of PortServer TS 2/4 or 2 units of PortServer TS 8)	111
76000682	76000682	DIN Rail Bracket Kit - Digi Connect WAN, Digi Connect RG, PortServer TS 1/2/4	111
76000689	76000689	23" Telco Rack Mount Kit	55, 111
76000692	76000692	RJ-45F/DB-25M Printer Adapter (4-pack)	110
76000693	76000693	Digi Cable Adapter Evaluation Kit	110
76000694	76000694	Acceleport C/CON Desktop 120-240VAC Power Supply	99, 114
76000695	76000695	Digi CM 8-Port 120-240VAC Power Supply	111
76000696	76000696	PortServer TS 8 48VDC Power Supply	111
76000697	76000697	RJ-45F/DB-9F Console Adapter (4-pack)	110
76000698	76000698	RJ-45F/DB-25M Console Adapter (4-pack)	110
76000699	76000699	RJ-45F/DB-25F Console Adapter (4-pack)	110
76000700	76000700	RJ-45F/DB-25M Modem Adapter (4-pack)	110
76000701	76000701	RJ-45F/DB-9M Modem Adapter (4-pack)	110
76000702	76000702	RJ-45F/DB-9M Modem Adapter (8-pack)	55, 111
76000705	76000705	19" Rack Mount Kit (Digi CM 8)	111
76000707	76000707	16" Daisy Chain Cable	101, 116
76000708	76000708	60" Daisy Chain Cable	101, 116
76000709	76000709	120" Daisy Chain Cable	101, 116
76000713	76000713	Digi Neo 2-Port DB-9M Fan-Out Cable	103, 113
76000717	76000717	Extended Temperature Power Supply	23, 85, 86, 111
76000723	76000723	48" RJ-45 Bare Wire Cable	110
76000724	76000724	48" DB-9 Bare Wire Cable (Digi One devices)	110
76000818	N/A	Power Cord - US 15A plug to RPM input	117
N/A	76000819	Power Cord - UK plug to RPM input	117
N/A	76000820	Power Cord - International RPM output to end device	117
76002042	76002042	8-Port DB-9M Straight Fan-Out Cable	97, 105, 115
77000448	77000448	AccelePort C/X Universal PCI (3.3V & 5V) RS-232	99
77000455	77000455	AccelePort Xem Universal PCI (3.3V & 5V)	101
77000560	77000560	AccelePort Xr 920 Universal PCI (3.3V & 5V) 4-Port RS-232 (w/o cables)	97
77000561	77000561	AccelePort Xr 920 Universal PCI (3.3V & 5V) 8-Port RS-232 (w/o cables)	97
77000573	77000573	AccelePort Xr 920 Universal PCI (3.3V & 5V) 2-Port RS-232 DB-9M) On-Board	97
77000576	77000576	ClassicBoard PCI (5V) 4-Port RS-232 w/o Cables	105
77000578	77000578	ClassicBoard PCI (5V) 8-Port RS-232 w/o Cables	105
77000583	N/A	AccelePort RAS 8 North America	108
N/A	77000584	AccelePort RAS 8 Europe (Austria, Belgium, Denmark, Finland, Greece, Iceland, Italy, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, UK)	108
N/A	77000585	AccelePort RAS 8 Germany, South Africa	108
N/A	77000586	AccelePort RAS 8 Australia, New Zealand, Switzerland	108
77000616	N/A	AccelePort RAS 4 North America	108
N/A	77000617	AccelePort RAS 4 Europe (Austria, Belgium, Denmark, Finland, Greece, Iceland, Italy, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, UK)	108
N/A	77000618	AccelePort RAS 4 Germany, South Africa	108

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Descr	Page #
N/A	77000619	AccelePort RAS 4 Australia, New Zealand, Switzerland	108
77000659	77000659	AccelePort Xp Universal PCI (3.3V & 5V) 2-Port RS-232 DB-9M On-Board	95
77000706	77000706	AccelePort Xp Universal PCI (3.3V & 5V) 4-Port RS-232	95
77000707	77000707	AccelePort Xp Universal PCI (3.3V & 5V) 8-Port RS-232	95
77000708	77000708	AccelePort Xp Universal PCI (3.3V & 5V) 16-Port RS-232	95
77000770	77000770	ClassicBoard PCI (5V) 8-Port w/Powered 5V Serial Ports RS-232 w/o Cables	105
77000771	77000771	ClassicBoard PCI (5V) 4-Port w/Powered 5V Serial Ports RS-232 w/o Cables	105
N/A	77000772	AccelePort RAS 8 Latin America (Mexico, Argentina, Chile)	108
N/A	77000773	AccelePort RAS 8 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan)	108
N/A	77000774	AccelePort RAS 8 Israel, Hungary	108
N/A	77000775	AccelePort RAS 4 Latin America (Mexico, Argentina, Chile)	108
N/A	77000776	AccelePort RAS 4 Asia (Japan, Singapore, Hong Kong, Korea, Taiwan)	108
N/A	77000777	AccelePort RAS 4 Israel, Hungary	108
77000835	77000835	Digi Neo Universal PCI (3.3V & 5V) 4-Port Low Profile (board only)	103
77000836	77000836	Digi Neo Universal PCI (3.3V & 5V) 8-Port Low Profile (board only)	103
77000838	77000838	AccelePort Xp Universal PCI (3.3V & 5V) 4-Port RS-232 RJ-45 On-Board	95
77000845	77000845	AccelePort Xp Universal PCI (3.3V & 5V) 4-Port Low Profile RS-232	95
77000846	77000846	AccelePort Xp Universal PCI (3.3V & 5V) 8-Port Low Profile RS-232	95
77000847	77000847	Digi Neo Universal PCI (3.3V & 5V) 2-Port DB-9M	103
77000848	77000848	Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45	103
77000849	77000849	Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45 Low Profile	103
77000851	77000851	Digi Neo Universal PCI (3.3V & 5V) 2-Port DB-9M	103
77000852	77000852	Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45	103
77000853	77000853	Digi Neo Universal PCI (3.3V & 5V) 2-Port RJ-45 Low Profile	103
77000855	77000855	Digi Neo Universal PCI (3.3V & 5V) 4-Port RJ-45	103
77000856	77000856	Digi Neo Universal PCI (3.3V & 5V) 4-Port RJ-45	103
77000857	77000857	Digi Neo Universal PCI (3.3V & 5V) 4-Port w/o Cables	103
77000858	77000858	Digi Neo Universal PCI (3.3V & 5V) 8-Port w/o Cables	103
77000862	77000862	ClassicBoard PCI (5V) 4-Port RS-422	105
77000863	77000863	ClassicBoard PCI (5V) 8-Port RS-422	105
77000864	77000864	Digi Neo Universal PCI (3.3V & 5V) 1-Port DB-25M	103
77000865	77000865	Digi Neo Universal PCI (3.3V & 5V) 1-Port DB-25M Low Profile	103
77000877	77000877	AccelePort Xem Universal PCI (3.3V & 5V) Low Profile	101
301-1000-02	301-1000-02	Edgeport/2 - 2 serial DB-9	69
301-1000-04	301-1000-04	Edgeport/4 - 4 serial DB-9	69
301-1000-10	301-2000-10	Edgeport/416 - 4 USB, 16 serial DB-9	69
301-1000-12	301-1000-12	Edgeport/2i - 2 RS-422/485 serial DB-9	69
301-1000-21	301-1000-21	Edgeport/21 - 2 serial DB-9, 1 parallel	69
301-1000-24	301-1000-24	Edgeport/4i - 4 RS-422 serial DB-9	69
301-1000-28	301-1000-28	Edgeport/8i - 8 RS-422 serial DB-9	69
301-1000-80	301-1000-80	Edgeport/2m - 2 serial DB-9, metal chassis	69
301-1000-81	301-1000-81	Edgeport/4m - 4 serial DB-9, metal chassis	69
301-1000-85	301-1000-85	Edgeport/8im - 8 RS-422 serial DB-9, metal chassis	69
301-1000-94	301-1000-94	Edgeport/4s MEI - 4 RS-232/422/485 DB-9 software selectable	69
301-1001-11	301-1001-11	Edgeport/1 - 1 serial DB-9	69
301-1001-15	301-1001-15	Edgeport/1 Captive Cable - 1 serial DB-9, attached 2m USB cable	69
301-1001-21	301-1001-21	Edgeport/1 25-Unit Bulk Pack (25 ea. 301-1001-11)	69
301-1001-22	301-1001-22	Edgeport/1 100-Bulk Pack (100 ea. 301-1001-11)	69
301-1001-31	301-1001-31	Edgeport/1i - 1 RS-422/485 serial DB-9	69

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Descr	Page #
301-1001-42	301-2001-42	Edgeport/42+ - USB to 4-port powered USB hub; 2 serial DB-9; power supply	71
301-1002-08	301-1002-08	Edgeport/8 - 8 serial DB-9	69
301-1002-14	301-1002-14	Edgeport/8r - 8 serial RJ-45	69
301-1002-98	301-1002-98	Edgeport/8s MEI - 8 RS-232/422/485 DB-9 software selectable	69
301-1003-10	301-1003-10	Edgeport/2c - 2 serial DB-9, captive 2m USB cable	69
301-1003-30	301-1003-30	Edgeport/22c - 2 serial DB-9, 2 USB, captive 2m USB cable	69
301-1004-12	301-2004-12	Edgeport/412 - 4 USB, 12 serial DB-9	69
301-1004-21	301-2004-21	Edgeport/421 - 4 USB, 2 serial DB-9, 1 parallel	69
301-1010-04	301-2010-04	Hubport/4 - 4-port USB hub	75
301-1010-07	301-2010-07	Hubport/7 - 7-port USB hub	75
301-1010-14	301-2010-14	Hubport/4+ - USB to 4-port powered USB hub; power supply	71
301-1010-30	301-1010-30	Hubport/4 DC - 4-port USB hub with DC input power	75
301-1010-70	301-1010-70	Hubport/7 DC - 7-port USB hub with DC input power	75
301-1012-04	301-2012-04	Rapidport/4 - USB to 4 56K V.92 modems; RJ-11	74
301-1012-08	301-2012-08	Rapidport/4 Dual Unit - 2 Rapidport/4 units	74
301-1016-01	301-1016-01	Edgeport/4/DB-25 - 4 serial DB-25	69
301-1016-08	301-1016-08	Edgeport/8/DB-25 - 8 serial DB-25	69
301-1016-12	301-2016-12	Edgeport/412/DB-25 - 4 USB, 12 serial DB-25	69
301-1016-16	301-2016-16	Edgeport/416/DB-25 - 4 USB, 16 serial DB-25	69
301-1022-04	301-1022-04	Edgeport/2+2i - 2 RS-232 serial, 2 RS-422 serial DB-9	69
301-1050-01	301-1050-01	Edgeport/E USB Ethernet Adapter	112
301-1101-01	301-1101-01	USB Upgrade Kit PCI to USB Expansion Card	112
301-1117-01	N/A	Wavespeed/LAN - USB-to-802.11b WLAN	76
301-1121-01	301-2121-01	Wavespeed/S Class 1	87
301-1122-01	301-2122-01	Wavespeed/S Class 2	87
301-1123-01	301-2123-01	Wavespeed/S Class 1 Pair	87
301-1124-01	301-2124-01	Wavespeed/S Class 2 Pair	87
301-1130-01	301-2130-01	AnywhereUSB/5 - Ethernet to 5 USB ports	65
301-1141-01	301-1141-01	Watchport/H - humidity & temperature sensor	73
301-1143-01	301-1143-01	Watchport/P - proximity sensor	73
301-1144-01	301-1144-01	Watchport/T - temperature sensor	73
301-1145-01	301-1145-01	Watchport/W - water detector	73
301-1146-01	301-1146-01	Watchport/D - distance sensor	73
301-1147-01	301-1147-01	Watchport/A - accelerometer	73
301-1149-01	301-1149-01	Hubport/PCI+ - PCI to 4-port powered USB card; optional power supply sold separately	71
301-1150-01	301-1150-01	Hubport/PCI+ - PCI to 4-port powered USB card; internally powered	71
301-1151-01	301-2151-01	Hubport/PCI+ - PCI to 4-port powered USB card with external power supply	71
301-1157-01	301-2157-01	Hubport/4c+ - USB to 4-port powered USB compact hub	71
301-1170-01	301-1170-01	Hubport/PCI+ LP 1x24V - Low Profile PCI - 1 x 24V	71
301-1171-01	301-1171-01	Hubport/PCI+ LP 3x12V - Low Profile PCI - 3 x 12V	71
301-1172-01	301-2172-01	Hubport/PCI+ LP 1x24V w/PS - Low Profile PCI - 1 x 24V with power supply	71
301-1173-01	301-1173-01	Hubport/PCI+ LP 1x24V w/cable - Low Profile PCI - 1 x 24V with ribbon cable to 12V card	71
301-9000-01	301-9000-01	1-Meter A to B USB Cable	112
301-9000-02	301-9000-02	5-Meter A to B USB Cable	112
301-9000-06	301-9000-06	3-Meter A to B USB Cable	112
301-9000-07	301-9000-07	2-Meter A to B USB Cable	112
301-9000-10	301-9000-10	4-Meter A to B USB Cable	112
301-9001-01	301-9001-01	Edgeport 19" Rack Mount Kit	112
301-9002-01	301-9002-01	5-Meter USB Repeater Cable	112

Part Numbers :: North America & International

North America Part Numbers	International Part Numbers	Product Name and Descr	Page #
301-9003-01	301-9003-01	Edgeport/4 Wall/Shelf Mount Bracket	112
301-9004-01	301-9004-01	Edgeport/8 Wall/Shelf Mount Bracket	112
301-9006-01	301-9006-01	6' USB to Parallel Printer Cable	112
301-9007-01	301-9207-01	Hubport/PCI+ Power Supply - optional power supply for 301-1149-01	71
301-9010-01	301-9010-01	Watchport/V2 USB Camera	72
301-9015-01	301-9015-01	Watchport/V USB Camera Lens Pack (3 mm wide angle, 8 mm close-up, 12 mm telephoto)	72, 112
301-9018-01	301-9018-01	Watchport/V Wall Mount	72, 112
301-9019-01	301-9019-01	Watchport/V Clamp Mount	72, 112
301-9026-01	301-9026-01	Watchport Sentry Software License - single camera per host	72, 79
301-9027-01	301-9027-01	Watchport Console Software License - 2 cameras per host	72, 79
301-9029-01	301-9029-01	Watchport Console Extra License - for additional Console connections	72, 79
DC-ANT-24DP	DC-ANT-24DT	2.4 GHz Dipole Antenna (single-unit pack)	117
DC-ANT-24DP-10	DC-ANT-24DP-10	2.4 GHz Dipole Antenna (10-unit pack)	117
DC-ANT-24DP-50	DC-ANT-24DP-50	2.4 GHz Dipole Antenna (50-unit pack)	117
DC-ANT-24DT	DC-ANT-24DT	2.4 GHz Desktop Antenna (single-unit pack)	117
DC-ANT-24DT-25	DC-ANT-24DT-25	2.4 GHz Desktop Antenna (25-unit pack)	117
DC-ANT-24DT-50	DC-ANT-24DT-50	2.4 GHz Desktop Antenna (50-unit pack)	117
DC-ANT-DBDP	DC-ANT-DBDP	Dual Band Wireless Dipole Antenna 4" - up to 2 dbi gain	117
DC-ANT-DBDP-25	DC-ANT-DBDP-25	Dual Band Wireless Dipole Antenna 4" (25-unit pack)	117
DC-ANT-DBHG	DC-ANT-DBHG	Dual Band Wireless Hi-Gain Antenna 14" - up to 4 dbi gain	117
DC-ANT-DBHG-25	DC-ANT-DBHG-25	Dual Band Wireless Hi-Gain Antenna 14" (25-unit pack)	117
DC-ANT-E-24DP	DC-ANT-E-24DP	30 cm Dipole Antenna Extension Cord (single-unit pack)	117
DC-ANT-E-24DP-25	DC-ANT-E-24DP-25	30 cm Dipole Antenna Extension Cord (25-unit pack)	117
DC-ANT-E-24DP-50	DC-ANT-E-24DP-50	30 cm Dipole Antenna Extension Cord (50-unit pack)	117
DC-EM-02T-C	DC-EM-02T-C	Digi Connect EM-C w/LED Array and RJ-45 Connector (single-unit pack)	43
DC-EM-02T-GN	DC-EM-02T-GN	Digi Connect EM Development Kit (GNU)	43, 46
DC-EM-02T-KT	DC-EM-02T-KT	Digi Connect EM Integration Kit	43, 45
DC-EM-02T-NC	DC-EM-02T-NC	Digi Connect EM-C w/Pin Headers (single-unit pack)	43
DC-EM-02T-S	DC-EM-02T-S	Digi Connect EM-S w/LED Array and RJ-45 Connector (single-unit pack)	43
DC-ME-01T-C	DC-ME-01T-C	Digi Connect ME-C (single-unit pack)	41
DC-ME-01T-GN	DC-ME-01T-GN	Digi Connect ME Development Kit (GNU)	41, 46
DC-ME-01T-KT	DC-ME-01T-KT	Digi Connect ME Integration Kit	41, 45
DC-ME-01T-S	DC-ME-01T-S	Digi Connect ME-S (single-unit pack)	41
DC-RG-GE10A	DC-RG-GE10A-W	Digi Connect Remote Gateway GSM with Antenna	86
DC-RG-S1XA	N/A	Digi Connect Remote Gateway CDMA with Antenna	86
DC-SP-01-C	DC-SP-01-C	Digi Connect SP - 1 port	27
DC-SP-01-GN	DC-SP-01-GN	Digi Connect SP Development Kit (GNU)	27, 46
DC-WAN-GE10A	DC-WAN-GE10A-W	Digi Connect WAN GSM with Antenna	85
DC-WEM-02T-C	DC-WEM-02T-C	Digi Connect Wi-EM-C w/LED Array (single-unit pack w/o antennas)	43
DC-WEM-02T-NC	DC-WEM-02T-NC	Digi Connect Wi-EM-C w/Pin Headers (single-unit pack w/o antennas)	43
DC-WEM-02T-S	DC-WEM-02T-S	Digi Connect Wi-EM-S w/LED Array (single-unit pack w/o antennas)	43
DC-WME-01T-C	DC-WME-01T-C	Digi Connect Wi-ME-C (single-unit pack with antenna)	41
DC-WME-01T-S	DC-WME-01T-S	Digi Connect Wi-ME-S (single-unit pack with antenna)	41
DC-WSP-01-C	DC-WSP-01-C-WW	Digi Connect Wi-SP-C	28
DC-WSP-01-GN	DC-WSP-01-GN	Digi Connect Wi-SP Development Kit (GNU)	28, 46
DC-WSP-01-S	DC-WSP-01-S-WW	Digi Connect Wi-SP-S	28

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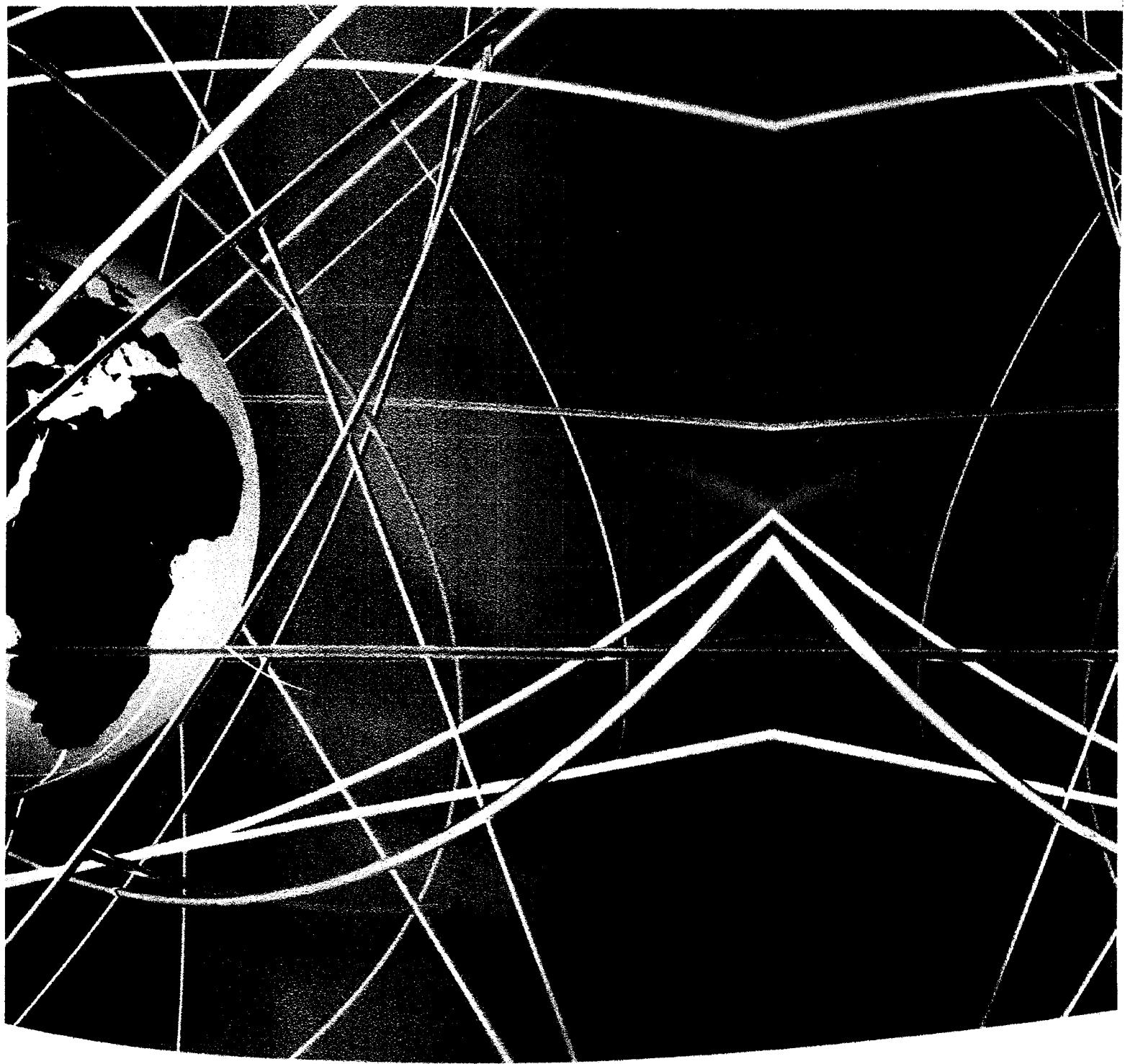
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SCADA, Data Acquisition, Device Networking, M2M and Security for Remote Sites and Onsite Power -- Offgrid, Standby and Back-up Power for Mission Critical Operations has been announced by Webcom Communications and Remote Site & Equipment Management Magazine.
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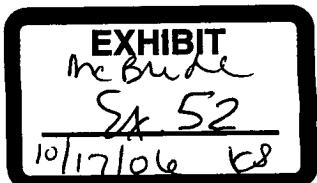
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The fifth annual conferences and expo will be held November 9-10, 2006 at the The Westin Long Beach, California. These technology-driven and solution oriented conferences bring together the innovators and users from multiple industries, including utilities, power, oil & gas, telecom, industrial, water & public utilities, agriculture and facilities management.

Remote Monitoring & Networking 2006 will focus on the leading advancements for the monitoring and management of distributed equipment and facilities,





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remote assets, automated process & system controls and device networks. Large-scale users and industry experts will speak on SCADA, security, control, automation, M2M, networking, telemetry and condition monitoring.

Onsite Power 2006 will cover the latest advancements in back-up, UPS, emergency and standby power systems, and design strategies for monitoring & controlling distributed, remote and mission-critical equipment and facilities.



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Overview

The November events will feature a large, co-located exhibit with dedicated hours passes for industry attendees. Last year's expo in Orlando featured over 40 top companies information on exhibiting and sponsoring this year's conference email Debra Hall at debra@infowebcom.com.

For speaking information go to http://www.remotemagazine.com/rem_conf_callfor contact John Cargile at johncg@infowebcom.com

Full Conference early-bird registration is \$695 with a savings of \$300. Go to http://www.remotemagazine.com/rem_conf_registration.htm or call 800-803-9488

Be sure to check the conference web site in the coming weeks for the latest updates and additions for 2006!

Key subject areas for *Remote Monitoring & Networking 2006* include:

- SCADA and Data Acquisition
- Wireless Mesh Networking
- Sensors for Monitoring and Management
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- Industrial Control and Automation
- Telemetry
- Security Solutions
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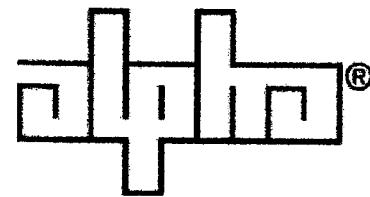
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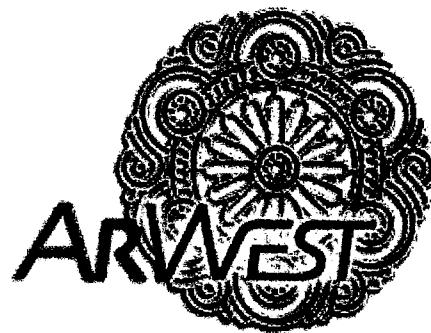
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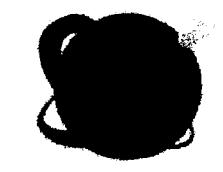


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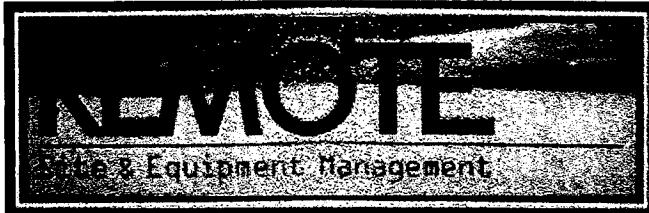
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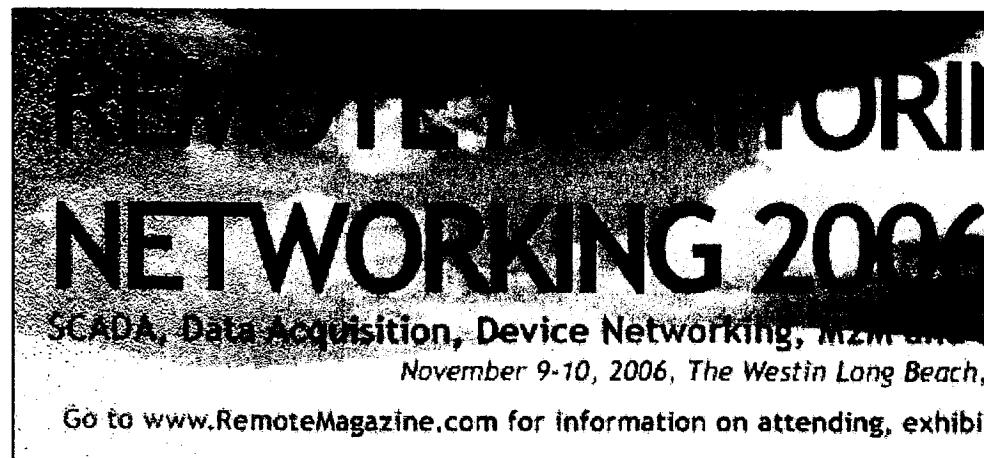
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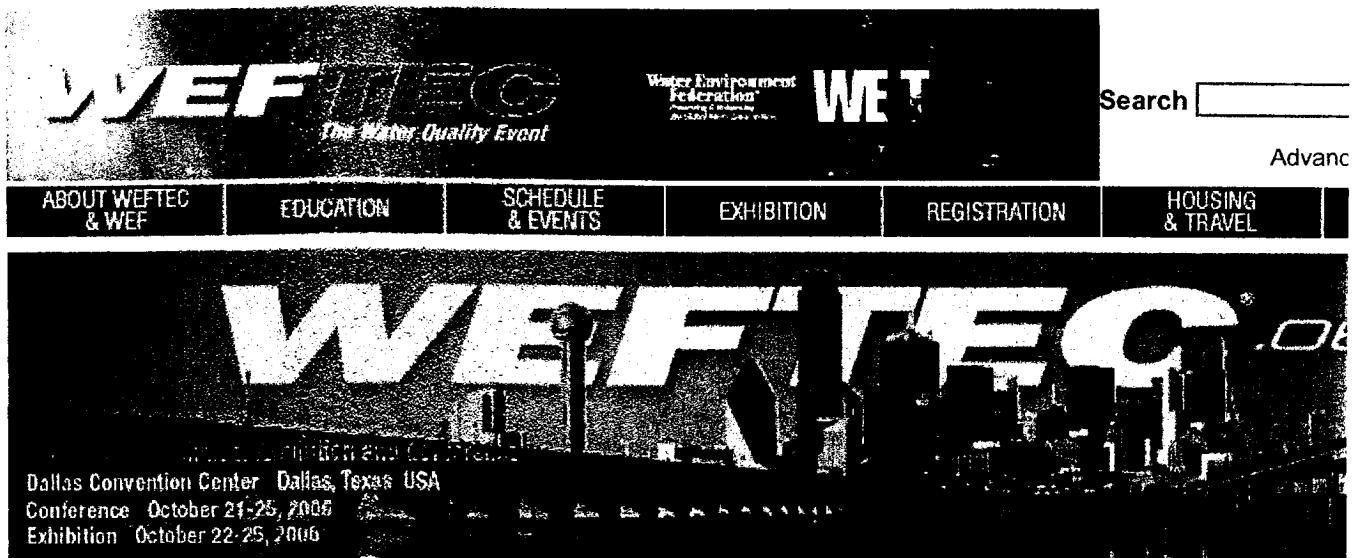


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ADAPCO Environmental Solutions	6563	HALL E
ADI Systems Inc.	2008	HALL F
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Advanced Oxidation Technology of Virginia	1006	HALL D
Advantage Sales & Supply Co. Inc.	4655	HALL A
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Aeration Industries International Inc.	4981	HALL A
AEROMIX Systems, Inc.	2528	HALL E
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AIRVAC	4785	HALL D
AK Industries	1008	HALL E
Akron Electric, Inc.	2349	HALL A
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American Manufacturing Company, Inc.	6693	HALL F
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American Process Group Inc.	1951	HALL A
American Water Works Association	2839	HALL B
American-Marsh Pumps	6063	HALL F
AMerik Supplies	2004	HALL B
Ameron International	1939	HALL A
Ametek	2016	HALL B
Amiad Filtration Systems	2109	HALL B
Amistco	6174	HALL F
Amitech U.S.A.	1003	HALL A
Ana-Lab Corporation	2337	HALL B
Analytical Technology, Inc.	4987	HALL E
Andritz-Ruthner, Inc.	1718	HALL A
AnoxKaldnes, Inc.	1221	HALL A
ANT21 Co., Ltd	6695	HALL F
Antx, inc.	3343	HALL C
Anue Corporation	4539	HALL D
AOC Resins	2420	HALL B
AP/M Permaform	1931	HALL A
APCO Valve & Primer Corporation	4830	HALL D
Applied Felts, Inc.	3415	HALL C
Applied Process Technology, Inc.	4827	HALL D
Aqua-Aerobic Systems, Inc.	1503	HALL A
AquaArmor	7085	HALL F
Aquarius Technologies, Inc.	6792	HALL F
AquaSensors, LLC	6874	HALL F
Aquatech International Corporation	6692	HALL F
Aquaturo Systems, Inc.	6878	HALL F
Aquionics Inc.	5291	HALL E
Arch Chemicals, Inc.	2444	HALL B
Arden Industries	6856	HALL F
AREA	6085	HALL F
Aries Industries Inc.	1231	HALL A
Arizona Instrument, LLC	1651	HALL A
Arkal Filtration Systems	2449	HALL B
Armored Textiles, Inc. (ATI)	1555	HALL A
Asahi/America Inc.	6079	HALL F
Ashbrook Simon-Hartley	2631	HALL B
Ashcroft Inc.	2417	HALL B
Ashland Inc.	2127	HALL B
AsiaWaterOnline	6397	HALL F

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Assmann Corporation of America	6783	HALL F
Associated Fiberglass Enterprises	6399	HALL F
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ATC--Diversified Electronics	5267	HALL E
Atlas Copco	1103	HALL A
Aurora Pump	1531	HALL A
Austrian Trade Commission	6793	HALL F
Automata, Inc.	5499	HALL E
Automatic Filters, Inc.	1932	HALL A
Avanti International	2930	HALL B
B & P Process Equipment	5862	HALL F
Babbitt Steam Specialty Company	5996	HALL F
Badger Meter, Inc.	4631	HALL D
Baker Tanks & Pumps	1303	HALL A
Baldor Electric Company	3719	HALL C
Barben Analyzer Technology	6472	HALL F
Barnant Company	5991	HALL F
BASF Polyurethane Foam Enterprises, LLC	6591	HALL F
Bay Products, Inc.	6056	HALL F
Baycor Fibre Tech Inc.	5591	HALL F
BCS	6891C	HALL F
BDP Industries, Inc	5597	HALL F
Beijing CEW International Fair Co., Ltd.	3317	HALL C
Belco Manufacturing Company	2317	HALL B
Ben Meadows Company	6193	HALL F
Benshaw Inc.	1938	HALL A
Bentley Systems, Incorporated (featuring Haestad Methods Solutions)	1315	HALL A
Bentley Systems, Incorporated (featuring Haestad Methods . Solutions)	6489	HALL F
Best Sulfer Products	6095	HALL F
BHB Asia Technology Co., Ltd.	2555	HALL B
BIC ALLIANCE	6493	HALL F
Big Dipper--Thermaco	3447	HALL C
BigMachines, Inc.	5497	HALL E
BioCOPE, Inc.	6066	HALL B
Bio-Micronics, Inc.	2038	HALL B
BIOREM Technologies Inc.	4791	HALL F
Bioscience, Inc.	6678	HALL F
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BIO-SYSTEMS International	6765	HALL F
Biothane Corporation	3130	HALL F
BirdNest Services	5793	HALL C
BJM Pumps	2339	HALL F
Black Bear Valve/Urban Logic Consultants, Inc.	2654	HALL B
Blacoh Fluid Control, Inc.	5284	HALL B
Blue Planet Environmental Systems, Inc.	6187	HALL E
Blue Ribbon Corp.	1017	HALL F

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AS OF 9/21/2006

Blue Water Technology, Inc.	4827	HALL D
Blue Water Technology, Inc.	4827	HALL D
BlueInGreen	4346	HALL A
BOC Edwards Hibon	5242	HALL C
Boerger, LLC	4555	HALL D
Bohn Biofilter	6464	HALL D
Bonfiglioli USA	1712	HALL F
Bord na Mona (Puraflo)	6590	HALL A
Brackett Green USA, Inc.	1702	HALL A
Brackett Green USA, Inc.	1702	HALL A
Brentwood Industries	2231	HALL F
Bright Technologies	4692	HALL B
Bristol Babcock	2538	HALL E
Brown Bear Corporation	4637	HALL B
Brunel Corporation	6882	HALL D
Burch Bio Wave, Inc.	6492	HALL F
Butterfly Valves & Controls Inc.	1441	HALL F
BW Technologies by Honeywell	3041	HALL A
BYO-GON	5388	HALL C
C & B Piping, Inc	2546	HALL E
C.I.M. Industries, Inc.	3011	HALL B
C.I.P.P. Corporation	6290	HALL C
Calgon Carbon Corporation	3611	HALL F
Campbell Scientific	3813	HALL C
Canadian Environmental Protection	6094	HALL C
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CarboLine	1748	HALL F
Carlisle Syntec Incorporated	6986	HALL A
Carus Chemical Company	3031	HALL F
Carylon Corporation	4665	HALL C
CB&I	4731	HALL E
CCI Pipeline Services	1928	HALL D
CDS Technologies, Inc.	4891	HALL A
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Cemen Tech, Inc.	4840	HALL F
Centrisys Corporation	4877	HALL D
Ceric Environmental Controls	4663	HALL E
Certainteed Municipal Products Group	6181	HALL E
CEU Plan	6699	HALL F
Challenge Environmental Systems, Inc.	3425	HALL F
Chandler Systems Inc. (CSI Controls)	2253	HALL C
Charlatte of America	6971	HALL B
CHEMetrics, Inc.	2445	HALL F
Chemical Engineering	6892	HALL F
Chemical Injection Technologies, Inc.	1550	HALL F
Chemline Plastics Limited	2434	HALL B
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AS OF 9/21/2006

ChemScan Process Analyzers	2502	HALL A
Chem-Tainer Industries	6575	HALL B
Chemtrac Systems, Inc.	1831	HALL B
Chemtrol	2054	HALL A
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Chicago Pump Company	5056	HALL D
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Chieh Sheng Co., Ltd.	5691	HALL E
China Foreign Trade Guangzhou Exhibition Corp.	2945	HALL F
Chuangjie Water Purifying Co., Ltd.	7087	HALL B
Ciba Specialty Chemicals Corporation	5697	HALL F
Civil Infrastructure	3648	HALL F
Clareco Environmental Engineering & Equipment	67101	HALL C
CLA-VAL	2440	HALL B
Clean Water Report	6966	HALL F
Cline Doors	6491	HALL F
Clow Valve Company	4854	HALL F
Coldwell-Wilcox Technologies, LLC	4687	HALL D
Cole-Parmer Instrument Company	3825	HALL E
Columbian TecTank	4748	HALL C
Composite Fan Technology	1654	HALL D
Composites One	2353	HALL A
Concord Screen	6262	HALL B
Concrete Sealants, Inc.	2048	HALL F
CONERY MFG INC	1849	HALL B
Conservatek Industries, Inc.	3124	HALL A
Constellation Energy Projects & Services Group	6398	HALL C
Continental Blower, LLC	5171	HALL F
Control Interface, Inc.	1343	HALL E
Control Microsystems	6788	HALL A
Control Systems Integrators Association	6891	HALL F
Controlotron	2503	HALL B
Controlotron	2523	HALL B
Controlotron	2702	HALL B
Controlotron	2503	HALL B
Controlotron	2523	HALL B
Controlotron	2702	HALL B
Cornell Pump Company	5478	HALL F
Corzan Industrial Systems	5994	HALL E
Craft Machine Works, Inc.	3517	HALL F
Crane Pumps & Systems	3225	HALL C
CRC Press -- Taylor and Francis Group LLC	5262	HALL C
Cretex Specialty Products	3926	HALL E
Crispin-Multiplex Mfg. Co.	2009	HALL C
Cromaglass Corp.	3739	HALL B
Crowcon Detection Instruments	6690	HALL C
CTZoom Technologies Inc.	6862	HALL F

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AS OF 9/21/2006

Cues	2203	HALL F
Custom FAB	6182	HALL B
Dakota Pump Inc.	4430	HALL F
Dalian Hands Machine Company	6365	HALL D
Danfoss Water & Wastewater	3631	HALL F
Data-Linc Group	1515B	HALL C
Dataradio	2913	HALL A
Daystar Composites, LLC	6773	HALL B
DBS Manufacturing, Inc.	4437	HALL F
Dehydration & Environmental Systems	1914	HALL D
Delta Industrial Valves, Inc.	6791	HALL A
Derceto, Inc.	6794	HALL F
Detection Instruments Corporation	2522	HALL F
DeZurik Water Controls	2024	HALL B
DHI Water & Environment, Inc.	5279	HALL B
Diamond Fiberglass	1825	HALL E
Diamond Plastics Corporation	6269	HALL A
Diffuser Express (A Division of Environmental Dynamics Inc.)	4446	HALL F
Digi International	6965	HALL D
Digital Analysis Corp.	6657	HALL F
Discflo Corporation	1843	HALL F
Dontech Industries, Inc.	1952	HALL A
Doosan Hydro Technology	1543	HALL A
Dosmatic USA/Int'l Inc.	1116	HALL A
Doug Meadows Co., LLC	5889	HALL A
Douglas Environmental	6978	HALL F
Douglas Products and Packaging	2319	HALL F
Draeger Safety, Inc.	2439	HALL B
Dresser ROOTS	5757	HALL B
DSI/Dynamatic	6889	HALL F
Duall Division, Met-Pro Corp.	2027	HALL F
Duke's Root Control, Inc.	3411	HALL B
Duperon Corporation	3647	HALL C
Duramax Industrial	6698	HALL C
Dwyer Instruments, Inc.	3543	HALL F
Dynasonics	3110	HALL C
Dynastone	1451	HALL C
EA Water Pvt. Ltd.	6962	HALL A
Eagle Microsystems, Inc.	3333	HALL F
East Jordan Iron Works, Inc.	4014	HALL C
Eastech Flow	6673	HALL C
Eaton Filtration - Hayward	6297	HALL F
Eaton Filtration - Ronningen-Petter	6293	HALL F
EBAA Iron, Inc.	5238	HALL D
EBARA Fluid Handling	4455	HALL D
Eccentric Pumps	1949	HALL A
EcoPlus, Inc.	4635	HALL D

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EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

EIMCO Water Technologies	1702	HALL A
Ekster and Associates	3114	HALL C
Elasto-Valve Rubber Products	1754	HALL A
Elcotech Technologies	3549	HALL C
Electric Systems Technology (ESTEEM)	1515G	HALL A
Electrolytic Technologies Corporation	1209	HALL A
EMA, Inc.	1430	HALL A
EMCO Flow Systems	4673	HALL E
eme/Engineered Maintenance Equipment	6772	HALL F
EMEC Americas	6199	HALL F
Emerson Network Power Surge Protection	2531	HALL B
Emerson Network Power Surge Protection	2531	HALL B
Emerson Process Management	2531	HALL B
Emerson Process Management - Rosemount Division	2531	HALL B
Emerson Process Management - Rosemount Division	2531	HALL B
Emerson Process Management, Power & Water Solutions	2531	HALL B
Emerson Process Management, Power & Water Solutions	2531	HALL B
Enqua	1544	HALL A
Enchlor, Inc.	1551	HALL A
Endress + Hauser	1515A	HALL A
Endress + Hauser	1811	HALL A
Engineered Storage Products Company	3026	HALL C
Engineering Ministries International	2847	HALL B
ENPAR Technologies Inc.	5896	HALL F
Entech Design, Inc.	5074	HALL E
Entex Technologies Inc.	1445	HALL A
Enviro-Care	4763	HALL E
Environetics, Inc.	2331	HALL B
Environment One Corporation	5131	HALL D
Environmental Biotech, Inc.	6868	HALL F
Environmental Dynamics Inc.	4449	HALL D
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Environmental Express Inc.	6298	HALL F
Environmental Fabrics, Inc./ThermaFab, Inc.	2932	HALL B
Environmental Instruments, LLC	6968	HALL F
Environmental Operating Solutions, Inc.	1553	HALL A
Environmental Science & Engineering Publications	3132	HALL C
Enviroquip, Inc.	3731	HALL C
EnviroSim Associates Ltd.	3433	HALL C
ESRI	4019	HALL C
Estruagua	6676	HALL F
Euro-Matic Inc.	5983	HALL F
Eutek Systems, Inc.	3327	HALL C
Excell Feeders, Inc.	1909	HALL A
Extech Instruments Corp.	2544	HALL B
EZ-2 Sealing Technology	6499	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

F & Q Pumps, Inc.	6468	HALL F
Fab-Tech Incorporated	1942	HALL A
Fairbanks Morse Pump	1730	HALL A
Fast Fabricators, Inc./Vitco Company	5270	HALL E
Federal Screen Products Inc.	2508	HALL B
Federal Signal Controls	6897	HALL F
Fehr Bros. Industries	4754	HALL D
Fenton Environmental Technologies, Inc.	5191	HALL E
Ferrate Treatment Technologies, LLC	4694	HALL E
Fibergrate Composite Structures	2524	HALL B
FIBOX Enclosures	2409	HALL B
Fisher Hamilton LLC	7077	HALL F
Fivalco (Qingdao) Ltd.	6292	HALL F
FKC Co., Ltd.	4649	HALL D
Flexim Instruments	1652	HALL A
Flo Trend Systems, Inc.	5992	HALL F
Flomotion Systems, Inc.	5989	HALL F
Flottweg Centrifuge	5979	HALL F
Flow Control Magazine	3049	HALL C
Flow Control Magazine	3049	HALL C
Flow Science, Inc.	6294	HALL F
Flowline	4755	HALL D
Flowserve	1411	HALL A
Flowtronex PSI/ITT Ind.	4841	HALL D
Fluid Components Intl.	1926	HALL A
Fluid Dynamics, Inc.	1817	HALL A
Fluid Dynamics, Inc.	1817	HALL A
FluidIQs Inc.	6891E	HALL F
Fluidyne Corporation	2247	HALL B
FMC Corporation	5961	HALL F
Fontaine International Corp.	3017	HALL C
Force Flow	2426	HALL B
Ford Hall Company	5127	HALL D
Forester Communications	6190	HALL F
Fournier Industries Inc.	3439	HALL C
FPI Pumps, Inc.	3548	HALL C
Franklin Miller, Inc.	4327	HALL D
Freewave Technologies	6577	HALL F
Fresh Creek Technologies, Inc.	5885	HALL F
Frontier Technology, Inc.	5897	HALL F
FRP Manufacturing Inc.	6099	HALL F
Fusion Tanks & Silos	2412	HALL B
Future Pipe Industries	1852	HALL A
Fybroc Division, Met-Pro Corp.	1224	HALL A
G.U. Florida Inc.	6275	HALL F
GA Industries Inc.	4215	HALL C
GA Industries Inc.	4215	HALL C

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Gabriel Novac & Associates Inc.	2516	HALL B
Galvanic Applied Sciences Inc.	6898	HALL F
Gardner Denver Blower Division	2031	HALL B
Garner Pump & Sewer Hog- Sewer Equipment Div.	6387	HALL F
GBA Master Series, Inc.	4339	HALL D
GE Fanuc Automation	3815	HALL C
GE Sensing	6674	HALL F
GE Water & Process Technologies	3131	HALL C
General Chemical, LLC	4442	HALL D
Geodome	3419	HALL C
Geoflow, Inc.	4772	HALL E
Geomembrane Technologies Inc.	5189	HALL E
George Fischer Signet, Inc.	5397	HALL E
Geotech Environmental Equipment	5797	HALL F
Gillette Generators	1549	HALL A
Glass-Steel, Inc.	6593	HALL F
GLB, Inc.	3532	HALL C
Global Pump Co. LLC	1537	HALL A
GMF Gouda America, Inc.	6861	HALL F
Godwin Pumps	2723	HALL B
Golden Harvest, Inc.	1027	HALL A
Gorman-Rupp Co.	5231	HALL D
Goulds Pumps, Water Technology/ITT	4845	HALL D
Government Engineering	3542	HALL C
GP50	3012	HALL C
GPM Pumps, Inc.	3627	HALL C
Grande Water Management Systems	4332	HALL C
Graybar Electric Company	6980	HALL F
Great Plains Industries, Inc.	6860	HALL F
Green Mountain International	5984	HALL F
Greylime Instruments	6068	HALL F
Grindex Pumps	4752	HALL D
Griswold Water Technologies	6694	HALL F
Groth Corporation	1117	HALL A
Grundfos Pumps Corporation	6096	HALL F
GTI Testing Laboratories	1915	HALL A
Hach Company	4927	HALL D
Hadronex	1753	HALL A
Halliday Products Inc.	2021	HALL B
Hallsten Corporation	3917	HALL C
Halogen Valve Systems, Inc.	3638	HALL C
Hammonds Technical Services	6967	HALL F
Hancor, Inc.	1648	HALL A
Hanley Wood/Public Works Magazine	5893	HALL F
Hanna Instruments, Inc.	6186	HALL F
Hansen Information Technologies	3530	HALL C
HARCO Fittings	3545	HALL C

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

HARMSCO Filtration Products	7073	HALL F
Harrington Industrial Plastics	3146	HALL C
Harris & Associates	5892	HALL F
Harvel Plastics Inc.	2450	HALL B
Hayward Flow Control Systems	2452	HALL B
Hayward Gordon	2925	HALL B
Headworks	2810	HALL B
Healy-Ruff Company	6685	HALL F
Hendrick Screen Co.	1851	HALL A
Henry Pratt Company	1827	HALL F
Heraeus Quartz America	6060	HALL F
Hercules Industries Inc.	6786	HALL F
Heritage Manufacturing Co., Inc.	6286	HALL E
Hibon Inc.	3745	HALL C
Highland Tank	6579	HALL F
Hirschmann Automation and Control, Inc.	1515H	HALL A
Hi-Tech Environmental, Inc.	4997	HALL C
HLS Ecolo, Inc.	3829	HALL B
Hobas Pipe USA	2831	HALL A
Hoffman	1839	HALL F
Holland Pump	6884	HALL D
Homa Pump Technology	4443	HALL C
Honeywell Analytics	3544	HALL E
House Manufacturing Company, Inc.	4690	HALL A
Houston Service Industries	1337	HALL E
HTS, Inc. Consultants	4798	HALL F
Huber Technology, Inc.	5575	HALL E
Hurco Technologies, Inc.	5190	HALL A
HYBO, Inc.	1933	HALL F
HYDAC International	6192	HALL F
Hydranautics	2416	HALL B
Hydra-Tech Pumps, Inc.	6870	HALL B
Hydro Instruments	2551	HALL C
Hydro International	3711	HALL E
Hydro-Dyne Engineering, Inc.	5288	HALL A
Hydromantis	5491	HALL E
Hydromatic, A division of Pentair Water	1630	HALL A
Hydro-Thermal Corporation	1455	HALL C
Hydroxyl Systems Inc.	3612	HALL F
I. Kruger Inc.	1738A	HALL A
IBOCO Corporation	6991	HALL D
IC Controls	1850	HALL A
Iconics Inc.	6766	HALL F
IDEXX Laboratories	2438	HALL F
IEH Laboratories & Consulting Group	6863	HALL F
Impact Technologies, LLC	7097	HALL B
Induron Coatings Inc.	4018	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Industrial Diversified Products, Inc.	7089	HALL C
Industrial Test Systems	1925	HALL F
Infilco Degremont	4031	HALL A
Infrastructure Technologies, Inc.	6197	HALL C
Inland Empire Utilities Agency	6696	HALL F
Inland Waters Pollution Control, Inc.	1025	HALL F
Inliner Technologies	5151	HALL A
In-Pipe Technology	2141	HALL D
Insite Instrumentation Group	4975	HALL E
In-Situ Inc.	5097	HALL C
Insituform Technologies, Inc.	3331	HALL F
Insituform Technologies, Inc.	6987	HALL F
Instrument Control Systems, Inc.	6891B	HALL E
Integra, Inc.	5366	HALL F
Intek, Inc.	6083	HALL A
Intereco USA, Inc.	1948	HALL F
International Center for Water Technology	6782	HALL E
International Dioxide, Inc.	4685	HALL C
International Ozone Association	3038	HALL E
International Valve Marketing Inc.	5590	HALL F
International Water and Irrigation	6073	HALL A
Interon Engineered Products	1321	HALL B
Invensys	2550	HALL E
INVENT Umwelt - und Verfahrenstechnik AG	4897	HALL F
IPLUS, Inc. (International Pipe Lining)	6291	HALL F
ISA	6264	HALL F
ITOCHU Chemicals America Inc.	6680	HALL D
ITT Flygt Corporation	4831	HALL D
ITT Goulds Pumps Industrial & BioPharm Group	4945	HALL D
ITT Industries, Inc.	4940	HALL E
ITT Water Treatment - Leopold	5385	HALL D
ITT Water Treatment - PCI Membranes	5040	HALL D
ITT Water Treatment - Portacel	5042	HALL D
ITT Water Treatment - Royce Technologies	5041	HALL A
Itt Water Treatment - WEDECO	5045	HALL E
J & S Valve, Inc.	1904	HALL B
Jaeger Products Inc.	2015	HALL F
Janssen Process Company (The)	5988	HALL E
JDV Equipment Corp.	5285	HALL F
J-M Manufacturing Co., Inc.	4684	HALL B
Jogler, Inc.	6071	HALL A
John Crane Mechanical Seals	2051	HALL F
John Meunier Inc.	1738B	HALL F
John Wiley & Sons	5971	HALL D
Johnson Screens	5973	HALL D
JOWA Consilium	5139	HALL A
JPS Industries, Inc. and Its Subsidiaries	5157	HALL D

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

JUMO Process Control, Inc.	1449	HALL A
JWC Environmental	5253	HALL C
Kaeser Compressors, Inc.	3641	HALL B
Kee Industrial Products, Inc.	2408	HALL A
KEG Technologies, Inc.	1955	HALL F
Keller America, Inc.	6960	HALL C
Kemiron Companies, Inc.	3524	HALL C
Kenco Plastics Company, Inc.	3039	HALL F
Keppel Seghers Inc.	6665	HALL E
Kiewit Companies	4697	HALL A
Kinetrol USA, Inc.	1954	HALL F
Koch Membrane Systems, Inc.	5681	HALL C
Komax Systems, Inc.	4010	HALL D
Komline-Sanderson	4627	HALL F
Korea Environmental Institute Association	6490	HALL C
Koso America	3442	HALL C
KPSI Transducers Pressure Systems	3539	HALL F
Krofta Technologies, LLC	6569	HALL E
KROHNE, INC.	5077	HALL A
KSB, Inc.	6175	HALL F
K-Tork International, Inc.	1906	HALL B
Kufferath, Inc.	2436	HALL C
KWH Pipe LTD	3511	HALL F
KWI North America Corporation	6993	HALL A
KWS Manufacturing Co., Ltd.	1940	HALL F
KZCO, Inc.	6691	HALL D
Lakeside Equipment Corporation	4431	HALL D
LaMotte Co.	4852	HALL B
Lamson Vylon Pipe	2427	HALL B
Landia, Inc.	2422	HALL E
Lansas Products Manufactured by Vanderlans & Sons, Inc.	5091	HALL E
Lantec Products Inc.	5368	HALL C
Lapeyre Stair, Inc.	3538	HALL A
Larox Flowsys Inc.	1018	HALL A
Layfield Environmental Systems Corp	1752	HALL F
Layne Christensen Company	6587	HALL A
Lemna Technologies, Inc.	1953	HALL F
Light Environmental, Inc.	7095	HALL D
Lighthouse Filters, LLC	4757	HALL E
Linabond, Inc.	5177	HALL F
Liquid Analytical Resource, LLC.	5957	HALL E
Liquid Dynamics Corp.	5371A	HALL C
Liquid Waste Technology, LLC.	3431	HALL C
Logiball Inc.	2329	HALL A
Longwatch	1228	HALL A
LUDECA, INC.	1530	HALL E
LuminUltra Technologies Ltd.	5594	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Lutz -- JESCO America Corporation	2010	HALL F
M&H Valve Company	4854	HALL D
M&H Valve Company	4854	HALL D
Mabry Castings Ltd.	6480	HALL F
Machine Support, Inc.	6296	HALL F
Magnablend Inc.	1023	HALL A
MagnaDrive Corporation	5382	HALL E
Magna-Flow Environmental	6091	HALL F
Magnecraft	5763	HALL F
Maintstar, Inc.	6194	HALL C
Mar Mac Construction Products	3749	HALL C
Marsh-McBirney Inc.	3727	HALL F
Mass Transfer Systems	5769	HALL F
Masterliner Incorporated	6988	HALL E
Mazzei Injector Corporation	4024	HALL C
Meltric Corporation	3915	HALL C
Metals & Materials Engineers (MME)	6583	HALL F
Metropolitan Industries, Inc.	6756	HALL F
MFG Environmental	5370	HALL E
MFG Water Treatment Products	5370	HALL E
MFG Water Treatment Products	5370	HALL E
Michels Corporation	6681	HALL F
MICROTEL, INC.	1125	HALL A
Microwave Data Systems Inc.	1515D	HALL A
Miller-Leaman, Inc.	1943	HALL A
Milliken Valve Company	2215	HALL B
Milton Roy	4740	HALL D
Milwaukee Instruments	2453	HALL B
MIOX Corporation	1803	HALL A
Mission Clay Products/NO-DIG Pipe	4233	HALL C
MISSION Communications	4766	HALL E
Mitsubishi Electric Power Products, Inc.	1916	HALL A
MixAir Technologies, Inc.	1749	HALL A
MJK	1423	HALL A
Mobrey Measurement, A Division of Emerson Process Management	2531	HALL B
Mobrey Measurement, A Division of Emerson Process Management	2531	HALL B
Mody Pumps, Inc.	4691	HALL E
Monoflo, Inc.	4786	HALL E
Morris Pumps	5056	HALL D
Morris Pumps	5056	HALL D
Moyno, Inc., A Unit of Robbins & Myers, Inc.	5050	HALL D
MSA Instrument Division	3430	HALL C
Multitrode	6373	HALL F
Municipal Solutions, Inc.	6779	HALL F
MWH Business Solutions	5492	HALL E
MWI Corporation	1215	HALL A
Myers, A division of Pentair Water	1632	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Myratek, Inc.	1918	HALL A
Myron L Company	1203	HALL A
NA Water Systems	1738D	HALL A
NA Water Systems	1738A	HALL A
NA Water Systems	1738A	HALL A
NASCO	6482	HALL A
NASSCO, Inc.	2938	HALL F
Natgun Corporation	4739	HALL B
National Association of Clean Water Agencies (NACWA)	3046	HALL D
National Clay Pipe Institute	4231	HALL C
National Environment Health Association	7098	HALL C
National Environmental Services Center	7092	HALL F
National Liner	5269	HALL F
National Onsite Wastewater Recycling Association	7090	HALL E
National Pump Company, LLC	4438	HALL F
NEFCO, Incorporated	1930	HALL D
Neptune Chemical Pump Co., Inc.	1817	HALL A
Netafim USA	2421	HALL A
NETZSCH Incorporated	6557	HALL B
Neuros Co., Ltd.	6881	HALL F
New Logic Research, Inc.	6997	HALL F
Next Evolution Water Solutions	6896	HALL F
NEXTChem Process Analyzers	6097	HALL F
Niles Steel Tank	6369	HALL F
NIVIS, LLC	6865	HALL F
Nobel Systems	2307	HALL F
Noram Engineering and Constructors, LTD.	3528	HALL B
Noren Products, Inc.	6771	HALL C
NORIT Americas Inc.	4776	HALL F
North American Pipe Corporation	6775	HALL E
North American Sensors Corp.	1911	HALL F
Northern Filter Media, Inc.	1912	HALL A
Nova Water Technologies, Inc.	6074	HALL A
Novapipe, A Lantor Group Company	2327	HALL F
Novozymes Biologicals, Inc.	6075	HALL B
NPC, Inc.	3045	HALL F
NRC Research Press	6466	HALL C
NRP, Inc.	1109	HALL F
NSF International	3910	HALL A
N-Tron Corporation	1515C	HALL C
Oclude	1650	HALL A
OCV Control Valves	4341	HALL D
Odor Control Specialties	6795	HALL F
OI Analytical	6498	HALL F
Oldcastle Precast	6476	HALL F
OMI Industries	4549	HALL D
ONSET Computer Corporation	1022	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Onyx Valve	5283	HALL E
OPS Systems Inc.	2303	HALL B
Orbeco-Hellige	1021	HALL C
Orbinox	6485	HALL A
Orival Water Filters	3827	HALL F
OR-TEC INC.	3743	HALL C
OTT Oxygen Transfer Technology by Hydro-Logic Environmental	6176	HALL F
Owen Engineering & Management Consultants, Inc.	5254	HALL D
Ozonia North America, Inc.	4027	HALL C
P.J. Hannah Equipment	2321	HALL B
Paco/Grundfos	4756	HALL D
Paints & Coatings, Inc.	6887	HALL F
Palintest	5899	HALL F
Pall Corporation	2435	HALL B
Palmer Mfg. & Tank, Inc.	2351	HALL B
Paratherm Corporation	6879	HALL F
Parkson Corporation	4851	HALL D
Peace Corps	6597	HALL F
Pearpoint, Inc.	4211	HALL C
Penn Valley Pump Co., Inc.	4331	HALL D
PEPCON Systems	4848	HALL D
PeriFlo Pumps	7070	HALL F
Petersen Products Co.	1331	HALL A
Philadelphia Mixing Solutions	3125	HALL C
Phoenix Contact	6975	HALL F
Phoenix Digital Corporation	1515F	HALL A
PHOENIX Process Equipment Co.	4345	HALL D
Pick Heaters, Inc.	3142	HALL C
Pioggia Carnevali Spa	6785	HALL F
Pioneer Pump, Inc.	5775	HALL F
Pioneer Water Tanks - A Bluescope Water Company	2455	HALL B
Plas-Tanks Industries, Inc.	3144	HALL C
Plast-O-Matic Valves, Inc.	5792	HALL F
PMP Precision Valve Co. Ltd.	5791	HALL F
PollardWater.com	5997	HALL F
Pollution Engineering Magazine	1004	HALL A
POLLUTION EQUIPMENT NEWS / Rimbach Publishing	4730	HALL D
Poly Processing Company	5273	HALL E
Polychem Systems, Division of Brentwood Industries, Inc.	2239	HALL B
PolyPipe, Inc.	4732	HALL D
Porex Filtration	6972	HALL F
Power Prime Pumps	2214	HALL B
PPG Industries, Inc.	3610	HALL C
Praher Canada Products Ltd.	1548	HALL A
PRD Tech Inc.	1127	HALL A
Precision Systems	1903	HALL A
Premier-Pipe USA	1019	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Price Brothers Company	5695	HALL A
Prime Controls LP	6873	HALL F
Prime Solution, Inc.	1239	HALL F
Probiotic Solutions	5274	HALL A
Process Measurement	5990	HALL F
Processing Magazine/Flow Control	3049	HALL E
Proco Products, Inc.	4643	HALL F
Procorp, Inc.	6087	HALL F
Procorp, Inc.	6087	HALL F
ProMinent Fluid Controls, Inc.	2221	HALL C
ProSoft Technology	1515E	HALL D
Pro-tech Systems Group	6891F	HALL B
PSI-Thunderline/Link-Seal(R)	5226	HALL A
Public Works Marketing Inc.	1128	HALL D
Pulsafeeder, Inc.--A Unit of IDEX Corporation	4762	HALL A
Pulsar, Inc.	5596	HALL E
Pulsed Hydraulics, Inc.	6263	HALL E
Pumps & Systems Magazine	6581	HALL F
Pumps and Controls Inc.	67102	HALL F
Purafil Environmental Systems	3025	HALL F
Pure Air Filtration	2650	HALL C
Pure Process Systems, Inc.	1655	HALL B
PW Eagle, Inc.	6764	HALL A
Q.C.E.C.	6381	HALL F
QDS Systems	6891D	HALL F
Quality Manufacturing Company	2002	HALL F
Quanics, Inc.	6797	HALL B
Quay Technologies Ltd.	4686	HALL F
R.D. Zande & Associates	1432	HALL E
R.S. Technical Services, Inc.	4775	HALL A
RACO Manufacturing and Engineering Co., Inc.	2121	HALL E
Rain for Rent	2115	HALL B
Rapid View IBAK USA	4338	HALL B
Rauschert Process Technologies, Inc.	1910	HALL C
Raven Lining Systems	4669	HALL A
RDP Technologies Inc.	4117	HALL E
RED Flint Sand and Gravel	1026	HALL C
Red Valve Company Inc.	2003	HALL A
Redzone Robotics, Inc.	4688	HALL B
Reline America	6463	HALL E
Renaissance Instruments Inc.	5250	HALL F
Renda Envionmental	6799	HALL D
Republic Blower Systems	5395	HALL F
Revere Control Systems, Inc.	6891A	HALL E
RJN Group, Inc.	3531	HALL F
Robicon	2503	HALL B
Robicon	2523	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Robicon	2702	HALL B
Robicon	2503	HALL B
Robicon	2523	HALL B
Robicon	2702	HALL B
Robo-Control(R)	2425	HALL C
ROBUSCHI USA, Inc.	6281	HALL C
Rockwell Automation/Allen-Bradley	1515	HALL B
Rodney Hunt Company	4215	HALL F
Roebic Laboratories, Inc.	1755	HALL A
Romac Industries	1944	HALL C
Romtec Utilities, Inc.	5877	HALL A
RootX Root Control Corp.	2911	HALL A
Rose + Bopla Enclosures	7091	HALL F
Rosemount Analytical Inc.	2531	HALL B
Rosemount Analytical Inc.	2531	HALL B
Ross Valve Mfg Co., Inc.	2345	HALL B
ROTO-MIX LLC	2448	HALL F
Rotork Controls, Inc.	4743	HALL B
RPS Engineering Inc.	5975	HALL B
Rural Community Assistance Partnership	7096	HALL D
S & N Airoflo	5167	HALL F
S&B Technical Products	7083	HALL F
s::can Measuring Systems	6869	HALL F
SABAS Pipeline Systems LLC	2103	HALL E
Saehan Industries Inc.	6687	HALL F
Safe Drain, Inc.	6070	HALL F
Samjin Precision Co., Ltd.	6682	HALL B
Sanitaire -- Div. of ITT Ind.	5030	HALL F
Sartorius Corporation	6661	HALL F
Sauvereisen, Inc.	5374	HALL F
SCALETRON INDUSTRIES LTD.	1653	HALL D
Schaeffler Group USA	1853	HALL F
Schlumberger Water Services	6061	HALL E
Schneider Electric - Water Wastewater Competency Center	6981	HALL A
Schreiber LLC	2131	HALL A
Schroeder Industries LLC	6462	HALL F
Schwing Bioset, Inc.	4885	HALL F
Scientific Technologies Inc.	3640	HALL B
Seacon Brantner	3518	HALL F
SealGuard, Inc.	3013	HALL E
Sealing Systems, Inc.	3024	HALL C
See Water Inc.	5891	HALL C
Seepage Control, Inc.	6669	HALL C
seepex, Inc.	4991	HALL C
Selwood Limited	6479	HALL F
Senex Corporation	4794	HALL F
SENSAPHONE	6759	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Sensorex	4641	HALL F
Sereco S.R.L.	6078	HALL E
Serpentix Conveyor Corporation	5143	HALL F
Sethco Division, Met-Pro Corp.	1224	HALL A
Sethco Division, Met-Pro Corp.	1224	HALL A
Severn Trent Services	1525	HALL D
Sewer History Exhibit	2940	HALL F
SEW-Eurodrive, Inc.	5263	HALL D
SewperCoat	6163	HALL A
SGS	6363	HALL E
Shand & Jurs, an L&J Technologies Company	1029	HALL B
Shanghai Olive Industries Co., Ltd.	1941	HALL F
Shanley Pump & Equipment, Inc.	2541	HALL F
Shaw Environmental	3337	HALL A
Shelter Works	6390	HALL A
Sherwin-Williams Co.	6077	HALL B
Shimadzu	3514	HALL C
Siemens	2503	HALL F
Siemens	2523	HALL F
Siemens	2702	HALL C
Siemens Automation & Drives	2503	HALL B
Siemens Automation & Drives	2523	HALL B
Siemens Automation & Drives	2702	HALL B
Siemens Automation & Drives	2503	HALL B
Siemens Automation & Drives	2523	HALL B
Siemens Automation & Drives	2702	HALL B
Siemens Building Technologies, Inc.	2503	HALL B
Siemens Building Technologies, Inc.	2523	HALL B
Siemens Building Technologies, Inc.	2702	HALL B
Siemens Building Technologies, Inc.	2503	HALL B
Siemens Building Technologies, Inc.	2523	HALL B
Siemens Building Technologies, Inc.	2702	HALL B
Siemens Energy and Automation	2503	HALL B
Siemens Energy and Automation	2523	HALL B
Siemens Energy and Automation	2702	HALL B
Siemens Energy and Automation	2503	HALL B
Siemens Energy and Automation	2523	HALL B
Siemens Energy and Automation	2702	HALL B
Siemens Financial Services, Inc.	2503	HALL B
Siemens Financial Services, Inc.	2523	HALL B
Siemens Financial Services, Inc.	2702	HALL B
Siemens Financial Services, Inc.	2503	HALL B
Siemens Financial Services, Inc.	2523	HALL B
Siemens Financial Services, Inc.	2702	HALL B
Siemens Water Technologies	2503	HALL B
Siemens Water Technologies	2523	HALL B
Siemens Water Technologies	2702	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Siemens Water Technologies	2503	HALL B
Siemens Water Technologies	2523	HALL B
Siemens Water Technologies	2702	HALL B
Sierra Instruments, Inc.	5493	HALL B
Singer Valve Inc.	5391	HALL B
Sioux Corporation	6288	HALL B
SJE-Rhombus	5276	HALL E
SK Chemicals, Co. Ltd.	6769	HALL E
Smith & Loveless Inc.	2043	HALL F
SmithCo Side-Dump Trailers	1118	HALL E
SNF Polodyne	4330	HALL F
Solar Environmental Services	2648	HALL B
SolarBee--Pump Systems, Inc.	4780	HALL A
Solinst Canada Ltd.	5266	HALL C
Sonic Solutions, LLC	1216	HALL B
Southern Sewer Equipment Sales	3646	HALL E
Spaans Babcock Inc.	3911	HALL E
Sparling Instruments, Inc.	6763	HALL A
Spears Manufacturing Company	3116	HALL C
Spectrashield Liner Systems	6160	HALL C
Spectrum Equipment Partners, Ltd.	3015	HALL F
Spirac (USA) Inc.	4838	HALL C
SPL World Group, Inc.	3515	HALL F
SPM Instrument Inc.	4695	HALL C
Sprayroq, Inc.	3817	HALL F
SPX Cooling Technologies	6169	HALL D
SRS Crisafulli, Inc. (also known as Crisafulli Pump Company)	2431	HALL C
SSPC: The Society for Protective Coatings	6894	HALL E
STABILOC	3547	HALL C
Stahlin Non Metallic Enclosures	6858	HALL F
Stainless Piping Specialists	1751	HALL B
Stamford Scientific International, Inc. (SSI)	6287	HALL F
Standard Alloys	5986	HALL C
Star Filters	1554	HALL F
Stevens Water Monitoring Systems, Inc.	4842	HALL A
STI Controls	1121	HALL F
Stockholm International Water Institute	2931	HALL F
Stormceptor/Imbrium Systems Corp.	1227	HALL A
StormTrap	2643	HALL D
Straub Pipe Coupling	5890	HALL A
Strongwell	4753	HALL B
Submersible Wastewater Pump Association (SWPA)	4750	HALL A
SubSurface Leak Detection Inc.	4790	HALL B
Sulzer Chemtech	1919	HALL F
Sulzer Pumps	6392	HALL D
Sunlight Systems Ultraviolet	1014	HALL D
Superior Signal Co., Inc.	3010	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Superior Tank Co., Inc.	5155	HALL A
Swaby-Lobeline Pump Co.	5687	HALL F
Swan Analytical Instruments, AG	5063	HALL A
Sweco, A Business Unit of M-I SWACO	1353	HALL C
SymCom, Inc.	2309	HALL D
Synagro	4026	HALL F
T.D. Williamson, Inc.	6495	HALL E
T.T. Technologies, Inc.	5495	HALL A
Tank Connection, LLC	1010	HALL B
TC Communications	6789	HALL C
Technical and Industrial Products	2016	HALL B
Technical and Industrial Products	2016	HALL B
TEFSA-USA	6584	HALL F
Teledyne ISCO	3117	HALL A
Telog Instruments, Inc.	4318	HALL F
Temcor	2430	HALL F
Tennessee Valley Authority	4736	HALL C
Terra Renewal Services, Inc.	6299	HALL C
Tetra Tech, Inc.	6599	HALL B
Texas Commission on Environmental Quality	6592	HALL D
The BILCO Company	2530	HALL F
The Mastrrr Company	5185	HALL F
The Pressure Pipe Inspection Co.	4796	HALL F
The Roberts Filter Group	3912	HALL E
The Spencer Turbine Company	6391	HALL A
Thermal Process Systems	1924	HALL E
Thermo Electron Corporation	4769	HALL D
Thern Inc.	5141	HALL E
Thompson Pump	4563	HALL F
Tipton Environmental International, Inc.	6875	HALL F
Titon Energy Inc.	6396	HALL D
Tnemec Company, Inc.	4527	HALL C
Topp Industries, Inc.	4111	HALL F
Toray Industries, Inc.	5965	HALL C
Toshiba International Corporation	3916	HALL F
TraceDetect, Inc.	6890	HALL F
Trenchless Technology	6172	HALL B
Trihedral Engineering Limited	2506	HALL A
TriSep Corporation	1807	HALL D
Trojan Technologies	4531	HALL F
Troy Valve	6757	HALL F
Trumbull Industries	6780	HALL F
Tsurumi Pump America Inc.	5587	HALL E
Turblex Inc.	4225	HALL C
Tuthill Vacuum & Blower Systems	3621	HALL C
Tyco Flow Control	2333	HALL B
U.S. Department of Agriculture, Rural Development	7094	HALL D

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

U.S. Department of Commerce	2843	HALL F
U.S. Environmental Protection Agency	65101	HALL B
U.S. Geological Survey	2943	HALL F
U.S. Pipe and Foundry Co.	5087	HALL B
U.S. Water News	3443	HALL E
U.S.F. Fabrication, Inc.	3630	HALL C
U-Liner	4734	HALL C
Ultraflore Corporation	1431	HALL A
Ultraliner, Inc.	4011	HALL C
Underground Construction	3925	HALL C
Underground Solutions, Inc.	6774	HALL F
Underwriters Laboratories Inc.	5895	HALL F
Uni-Bell PVC Pipe Association	4657	HALL D
United Blower	6157	HALL F
United Rentals Pump Power & HVAC	2548	HALL B
University of Denver	6973	HALL F
URS	1927	HALL A
US Peroxide	4639	HALL D
US Polymers Inc.	6964	HALL F
US Saws	6057	HALL F
USA Tank Storage Systems	6087	HALL F
USABlueBook	2403	HALL B
USFilter	2503	HALL B
USFilter	2523	HALL B
USFilter	2702	HALL B
USFilter	2503	HALL B
USFilter	2523	HALL B
USFilter	2702	HALL B
USPoly Company	6760	HALL F
Utility Systems, Science & Software, Inc.	5871	HALL F
VAC-CON, INC.	1902	HALL F
Vactor Manufacturing	2651	HALL A
Val-Matic Valve & Mfg. Corp.	2227	HALL B
Valve and Filter Corp.	1848	HALL B
Vanton Pump & Equipment Corp.	1327	HALL A
Vapex, Inc.	3014	HALL A
Varec Biogas	3029	HALL C
Vaughan Company, Inc.	4963	HALL C
Veolia Water Solutions & Technologies	1738C	HALL E
Veolia Water Solutions & Technologies	1738A	HALL A
Veolia Water Solutions & Technologies	1738A	HALL A
Victaulic	4677	HALL A
Viking Chains Inc./VC Chains Corporation	5496	HALL E
Viscotherm	1534	HALL E
VitAG, LLC	1216	HALL A
VitAG, LLC	1216	HALL A
Vogelsang	5857	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

V-Ram Solids	6598	HALL F
Vulcan Industries, Inc.	5363	HALL E
Vynckier Enclosure Systems, Inc.	5967	HALL F
Wachs Utility Services	5795	HALL F
Wade & Associates, Inc.	3927	HALL C
Walker Process Equip. Div. of McNish Corp.	3231	HALL F
Wallingford Software, Inc.	3239	HALL C
Wanner Engineering	6196	HALL C
Warminster Fiberglass.com	5149	HALL C
Wasser	2014	HALL F
Wasser Berlin/Messe Berlin GmbH	4698	HALL D
Waste News	5998	HALL B
Wastecorp. Pumps	2917	HALL E
Wastequip	6697	HALL F
Waste-Tech Inc.	6471	HALL F
Water & Wastes Digest	2030	HALL B
Water & Wastewater Equipment Manufacturers Association, Inc.	3040	HALL F
Water & Wastewater Products Magazine/Environmental Protection	2512	HALL B
Water Environment Research Foundation	3030	HALL C
Water Online	4314	HALL B
Water Technology Magazine	1024	HALL C
Water Technology Resources	4680	HALL C
WateReuse Association	2939	HALL A
Waterloo Biofilter Systems Inc.	3541	HALL E
Waterman Industries	6888	HALL B
WaterWorld/Industrial WaterWorld	4638	HALL C
Watson-Marlow Bredel Pumps	1309	HALL F
WBE Dorcas, Inc. / Dinjer	6796	HALL D
Weatherford International	6594	HALL A
WEG Electric Motors	1349	HALL A
Weir Washer Automated Cleaning Systems	3516	HALL C
WELL WASHERS USA	5790	HALL F
WEMCO Pump	5371	HALL E
Wenzhou Changmi Airtight Manufacturing Company	6072	HALL F
Wenzhou Greatork Apparatus Co., Ltd.	5969	HALL F
Wess Global, Inc.	4696	HALL E
WestTech Engineering, Inc.	3525	HALL C
Westfalia Separator, Inc.	5227	HALL D
Westfall Manufacturing Co.	1129	HALL A
Weston Solutions, Inc. (WESTON(R))	2429	HALL B
Whirlygig Company	3440	HALL C
WIKA Instrument Corporation	5378	HALL E
Wil-loc Inc.	6082	HALL F
WILO-EMU USA LLC	5781	HALL F
WinCan America, Inc.	3341	HALL C
Wolf Creek Company, Inc.	2325	HALL B
World Pumps /Filtration + Separation	4670	HALL E

**WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006**

World Water Center	3044	HALL C
World Water Works, Inc.	1220	HALL A
WTP Equipment Corp.	5490	HALL E
WTW	5245	HALL D
XP Software	4012	HALL C
Yardney Water Filtration Systems	6088	HALL F
Yeomans Chicago Corporation	5056	HALL D
Yeomans Pump	5056	HALL D
Yeomans Pump	5056	HALL D
YSI Incorporated	4427	HALL D
Zebron Corporation	6064	HALL F
Zoeller Engineered Products	2402	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Company Name	Booth Number	Booth Location
A.A. Rotating Apparatus, Inc.	6768	HALL C
A.R.I. USA, Inc.	1833	HALL F
A.W. Chesterton Company	5297	HALL A
ABB Inc. Instrumentation	2743	HALL E
ABBA Pump Parts & Service	3616	HALL B
ABEL Pumps, L.P.	5379	HALL C
Abresist Corporation	6188	HALL E
ABS Pumps Inc.	4131	HALL F
Accela, Inc.	6790	HALL C
Accelerated Technology Laboratories, Inc.	1649	HALL F
Accusonic Technologies	4869	HALL A
ACME Engineering Products Inc.	5187	HALL E
Acrison, Inc.	4672	HALL E
ADAPCO Environmental Solutions	6563	HALL E
ADI Systems Inc.	2008	HALL F
ADS Environmental Services	4863	HALL B
Advance Products & Systems, Inc.	4749	HALL E
Advanced Oxidation Technology of Virginia	1006	HALL D
Advantage Sales & Supply Co. Inc.	4655	HALL A
Aegis Protective Shelters	1907	HALL D
Aeration Industries International Inc.	4981	HALL A
AEROMIX Systems, Inc.	2528	HALL E
Aero-Mod Inc.	5675	HALL F
AEROSTRIP Corporation	3138	HALL B
Aerzen	1403	HALL C
AGCO/Ag Chem Equipment Co.	3644	HALL A
Aguamarket.com	6367	HALL C
Air & Waste Management Association	2941	HALL F
Air Liquide Industrial U.S. L.P.	1435	HALL B
Air Products & Chemicals, Inc.	1536	HALL A
Airmaster Aerator, L.L.C.	4450	HALL A
AirSep Corp.--Commercial Products Division	4440	HALL D
AIRVAC	4785	HALL D
AK Industries	1008	HALL E
Akron Electric, Inc.	2349	HALL A
Alfa Laval Inc.	4543	HALL B
All Star Products, Inc.	6156	HALL D
Allied Moulded Products, Inc.	4333	HALL F
Allied-Locke Industries, Inc.	2534	HALL D
AllMax Software, Inc.	5248	HALL B
Alloway	5995	HALL D
Allprime Pumps	5865	HALL F
Allweiler Pump	4681	HALL F
A-LOK Products, Inc.	3429	HALL E
Alpine Technology, Inc.	2313	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

American Academy Environ. Eng.	3042	HALL C
American Academy of Water Resources Engineers	2947	HALL B
American Cast Iron Pipe Company	4125	HALL C
American City & County Magazine	3811	HALL C
American Concrete Pressure Pipe Association	2549	HALL B
American Manufacturing Company, Inc.	6693	HALL F
American Pipe & Plastics, Inc.	6784	HALL F
American Process Group Inc.	1951	HALL A
American Water Works Association	2839	HALL B
American-Marsh Pumps	6063	HALL F
AMerik Supplies	2004	HALL B
Ameron International	1939	HALL A
Ametek	2016	HALL B
Amiad Filtration Systems	2109	HALL B
Amistco	6174	HALL F
Amitech U.S.A.	1003	HALL A
Ana-Lab Corporation	2337	HALL B
Analytical Technology, Inc.	4987	HALL E
Andritz-Ruthner, Inc.	1718	HALL A
AnoxKaldnes, Inc.	1221	HALL A
ANT21 Co., Ltd	6695	HALL F
Antx, inc.	3343	HALL C
Anue Corporation	4539	HALL D
AOC Resins	2420	HALL B
AP/M Permaform	1931	HALL A
APCO Valve & Primer Corporation	4830	HALL D
Applied Felts, Inc.	3415	HALL C
Applied Process Technology, Inc.	4827	HALL D
Aqua-Aerobic Systems, Inc.	1503	HALL A
AquaArmor	7085	HALL F
Aquarius Technologies, Inc.	6792	HALL F
AquaSensors, LLC	6874	HALL F
Aquatech International Corporation	6692	HALL F
Aquaturo Systems, Inc.	6878	HALL F
Aquionics Inc.	5291	HALL E
Arch Chemicals, Inc.	2444	HALL B
Arden Industries	6856	HALL F
AREA	6085	HALL F
Aries Industries Inc.	1231	HALL A
Arizona Instrument, LLC	1651	HALL A
Arkal Filtration Systems	2449	HALL B
Armored Textiles, Inc. (ATI)	1555	HALL A
Asahi/America Inc.	6079	HALL F
Ashbrook Simon-Hartley	2631	HALL B
Ashcroft Inc.	2417	HALL B
Ashland Inc.	2127	HALL B
AsiaWaterOnline	6397	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Assmann Corporation of America	6783	HALL F
Associated Fiberglass Enterprises	6399	HALL F
Association of Boards of Certification	2933	HALL B
ATC--Diversified Electronics	5267	HALL E
Atlas Copco	1103	HALL A
Aurora Pump	1531	HALL A
Austrian Trade Commission	6793	HALL F
Automata, Inc.	5499	HALL E
Automatic Filters, Inc.	1932	HALL A
Avanti International	2930	HALL B
B & P Process Equipment	5862	HALL F
Babbitt Steam Specialty Company	5996	HALL F
Badger Meter, Inc.	4631	HALL D
Baker Tanks & Pumps	1303	HALL A
Baldor Electric Company	3719	HALL C
Barben Analyzer Technology	6472	HALL F
Barnant Company	5991	HALL F
BASF Polyurethane Foam Enterprises, LLC	6591	HALL F
Bay Products, Inc.	6056	HALL F
Baycor Fibre Tech Inc.	5591	HALL F
BCS	6891C	HALL F
BDP Industries, Inc	5597	HALL F
Beijing CEW International Fair Co., Ltd.	3317	HALL C
Belco Manufacturing Company	2317	HALL B
Ben Meadows Company	6193	HALL F
Benshaw Inc.	1938	HALL A
Bentley Systems, Incorporated (featuring Haestad Methods Solutions)	1315	HALL A
Bentley Systems, Incorporated (featuring Haestad Methods Solutions)	6489	HALL F
Best Sulfer Products	6095	HALL F
BHB Asia Technology Co., Ltd.	2555	HALL B
BIC ALLIANCE	6493	HALL F
Big Dipper--Thermaco	3447	HALL C
BigMachines, Inc.	5497	HALL E
BioCOPE, Inc.	6066	HALL B
Bio-Micronics, Inc.	2038	HALL B
BIOREM Technologies Inc.	4791	HALL F
Bioscience, Inc.	6678	HALL F
BioSec Enviro Inc.	5985	HALL E
BIO-SYSTEMS International	6765	HALL F
Biothane Corporation	3130	HALL F
BirdNest Services	5793	HALL C
BJM Pumps	2339	HALL F
Black Bear Valve/Urban Logic Consultants, Inc.	2654	HALL B
Blacoh Fluid Control, Inc.	5284	HALL B
Blue Planet Environmental Systems, Inc.	6187	HALL E
Blue Ribbon Corp.	1017	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Blue Water Technology, Inc.	4827	HALL D
Blue Water Technology, Inc.	4827	HALL D
BlueInGreen	4346	HALL A
BOC Edwards Hibon	5242	HALL C
Boerger, LLC	4555	HALL D
Bohn Biofilter	6464	HALL D
Bonfiglioli USA	1712	HALL F
Bord na Mona (Puraflo)	6590	HALL A
Brackett Green USA, Inc.	1702	HALL A
Brackett Green USA, Inc.	1702	HALL A
Brentwood Industries	2231	HALL F
Bright Technologies	4692	HALL B
Bristol Babcock	2538	HALL E
Brown Bear Corporation	4637	HALL B
Brunel Corporation	6882	HALL D
Burch Bio Wave, Inc.	6492	HALL F
Butterfly Valves & Controls Inc.	1441	HALL F
BW Technologies by Honeywell	3041	HALL A
BYO-GON	5388	HALL C
C & B Piping, Inc	2546	HALL E
C.I.M. Industries, Inc.	3011	HALL B
C.I.P.P. Corporation	6290	HALL C
Calgon Carbon Corporation	3611	HALL F
Campbell Scientific	3813	HALL C
Canadian Environmental Protection	6094	HALL C
Capstone Turbine Corporation	6675	HALL F
Carboline	1748	HALL F
Carlisle Syntec Incorporated	6986	HALL A
Carus Chemical Company	3031	HALL F
Carylon Corporation	4665	HALL C
CB&I	4731	HALL E
CCI Pipeline Services	1928	HALL D
CDS Technologies, Inc.	4891	HALL A
CEI- Carbon Enterprises	6084	HALL E
Cemen Tech, Inc.	4840	HALL F
Centrisys Corporation	4877	HALL D
Cerlic Environmental Controls	4663	HALL E
Certainteed Municipal Products Group	6181	HALL E
CEU Plan	6699	HALL F
Challenge Environmental Systems, Inc.	3425	HALL F
Chandler Systems Inc. (CSI Controls)	2253	HALL C
Charlatte of America	6971	HALL B
CHEMetrics, Inc.	2445	HALL F
Chemical Engineering	6892	HALL F
Chemical Injection Technologies, Inc.	1550	HALL F
Chemline Plastics Limited	2434	HALL B
Chem-Pruf Door Co., Ltd.	6474	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

ChemScan Process Analyzers	2502	HALL A
Chem-Tainer Industries	6575	HALL B
Chemtrac Systems, Inc.	1831	HALL B
Chemtrol	2054	HALL A
Cherne Underground	5163	HALL B
Chicago Pump Company	5056	HALL D
Chicago Pump Company	5056	HALL D
Chieh Sheng Co., Ltd.	5691	HALL E
China Foreign Trade Guangzhou Exhibition Corp.	2945	HALL F
Chuangjie Water Purifying Co., Ltd.	7087	HALL B
Ciba Specialty Chemicals Corporation	5697	HALL F
Civil Infrastructure	3648	HALL F
Clareco Environmental Engineering & Equipment	67101	HALL C
CLA-VAL	2440	HALL B
Clean Water Report	6966	HALL F
Cline Doors	6491	HALL F
Clow Valve Company	4854	HALL F
Coldwell-Wilcox Technologies, LLC	4687	HALL D
Cole-Parmer Instrument Company	3825	HALL E
Columbian TecTank	4748	HALL C
Composite Fan Technology	1654	HALL D
Composites One	2353	HALL A
Concord Screen	6262	HALL B
Concrete Sealants, Inc.	2048	HALL F
CONERY MFG INC	1849	HALL B
Conservetek Industries, Inc.	3124	HALL A
Constellation Energy Projects & Services Group	6398	HALL C
Continental Blower, LLC	5171	HALL F
Control Interface, Inc.	1343	HALL E
Control Microsystems	6788	HALL A
Control Systems Integrators Association	6891	HALL F
Controlotron	2503	HALL B
Controlotron	2523	HALL B
Controlotron	2702	HALL B
Controlotron	2503	HALL B
Controlotron	2523	HALL B
Controlotron	2702	HALL B
Cornell Pump Company	5478	HALL F
Corzan Industrial Systems	5994	HALL E
Craft Machine Works, Inc.	3517	HALL F
Crane Pumps & Systems	3225	HALL C
CRC Press -- Taylor and Francis Group LLC	5262	HALL C
Cretex Specialty Products	3926	HALL E
Crispin-Multiplex Mfg. Co.	2009	HALL C
Cromaglass Corp.	3739	HALL B
Crowcon Detection Instruments	6690	HALL C
CTZoom Technologies Inc.	6862	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Cues	2203	HALL F
Custom FAB	6182	HALL B
Dakota Pump Inc.	4430	HALL F
Dalian Hands Machine Company	6365	HALL D
Danfoss Water & Wastewater	3631	HALL F
Data-Linc Group	1515B	HALL C
Dataradio	2913	HALL A
Daystar Composites, LLC	6773	HALL B
DBS Manufacturing, Inc.	4437	HALL F
Dehydration & Environmental Systems	1914	HALL D
Delta Industrial Valves, Inc.	6791	HALL A
Derceto, Inc.	6794	HALL F
Detection Instruments Corporation	2522	HALL F
DeZurik Water Controls	2024	HALL B
DHI Water & Environment, Inc.	5279	HALL B
Diamond Fiberglass	1825	HALL E
Diamond Plastics Corporation	6269	HALL A
Diffuser Express (A Division of Environmental Dynamics Inc.)	4446	HALL F
Digi International	6965	HALL D
Digital Analysis Corp.	6657	HALL F
Discflo Corporation	1843	HALL F
Dontech Industries, Inc.	1952	HALL A
Doosan Hydro Technology	1543	HALL A
Dosmatic USA/Int'l Inc.	1116	HALL A
Doug Meadows Co., LLC	5889	HALL A
Douglas Environmental	6978	HALL F
Douglas Products and Packaging	2319	HALL F
Draeger Safety, Inc.	2439	HALL B
Dresser ROOTS	5757	HALL B
DSI/Dynamatic	6889	HALL F
Duall Division, Met-Pro Corp.	2027	HALL F
Duke's Root Control, Inc.	3411	HALL B
Duperon Corporation	3647	HALL C
Duramax Industrial	6698	HALL C
Dwyer Instruments, Inc.	3543	HALL F
Dynasonics	3110	HALL C
Dynastone	1451	HALL C
EA Water Pvt. Ltd.	6962	HALL A
Eagle Microsystems, Inc.	3333	HALL F
East Jordan Iron Works, Inc.	4014	HALL C
Eastech Flow	6673	HALL C
Eaton Filtration - Hayward	6297	HALL F
Eaton Filtration - Ronningen-Petter	6293	HALL F
EBAA Iron, Inc.	5238	HALL D
EBARA Fluid Handling	4455	HALL D
Eccentric Pumps	1949	HALL A
EcoPlus, Inc.	4635	HALL D

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

EIMCO Water Technologies	1702	HALL A
Ekster and Associates	3114	HALL C
Elasto-Valve Rubber Products	1754	HALL A
Elcotech Technologies	3549	HALL C
Electric Systems Technology (ESTEEM)	1515G	HALL A
Electrolytic Technologies Corporation	1209	HALL A
EMA, Inc.	1430	HALL A
EMCO Flow Systems	4673	HALL E
eme/Engineered Maintenance Equipment	6772	HALL F
EMEC Americas	6199	HALL F
Emerson Network Power Surge Protection	2531	HALL B
Emerson Network Power Surge Protection	2531	HALL B
Emerson Process Management	2531	HALL B
Emerson Process Management - Rosemount Division	2531	HALL B
Emerson Process Management - Rosemount Division	2531	HALL B
Emerson Process Management, Power & Water Solutions	2531	HALL B
Emerson Process Management, Power & Water Solutions	2531	HALL B
Enaqua	1544	HALL A
Enchlor, Inc.	1551	HALL A
Endress + Hauser	1515A	HALL A
Endress + Hauser	1811	HALL A
Engineered Storage Products Company	3026	HALL C
Engineering Ministries International	2847	HALL B
ENPAR Technologies Inc.	5896	HALL F
Entech Design, Inc.	5074	HALL E
Entex Technologies Inc.	1445	HALL A
Enviro-Care	4763	HALL E
Environetics, Inc.	2331	HALL B
Environment One Corporation	5131	HALL D
Environmental Biotech, Inc.	6868	HALL F
Environmental Dynamics Inc.	4449	HALL D
Environmental Energy & Engineering Co.	4344	HALL C
Environmental Expert	6191	HALL F
Environmental Express Inc.	6298	HALL F
Environmental Fabrics, Inc./ThermaFab, Inc.	2932	HALL B
Environmental Instruments, LLC	6968	HALL F
Environmental Operating Solutions, Inc.	1553	HALL A
Environmental Science & Engineering Publications	3132	HALL C
Enviroquip, Inc.	3731	HALL C
EnviroSim Associates Ltd.	3433	HALL C
ESRI	4019	HALL C
Estruagua	6676	HALL F
Euro-Matic Inc.	5983	HALL F
Eutek Systems, Inc.	3327	HALL C
Excell Feeders, Inc.	1909	HALL A
Extech Instruments Corp.	2544	HALL B
EZ-2 Sealing Technology	6499	HALL F

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

F & Q Pumps, Inc.	6468	HALL F
Fab-Tech Incorporated	1942	HALL A
Fairbanks Morse Pump	1730	HALL A
Fast Fabricators, Inc./Vitco Company	5270	HALL E
Federal Screen Products Inc.	2508	HALL B
Federal Signal Controls	6897	HALL F
Fehr Bros. Industries	4754	HALL D
Fenton Environmental Technologies, Inc.	5191	HALL E
Ferrate Treatment Technologies, LLC	4694	HALL E
Fibergrate Composite Structures	2524	HALL B
FIBOX Enclosures	2409	HALL B
Fisher Hamilton LLC	7077	HALL F
Fivalco (Qingdao) Ltd.	6292	HALL F
FKC Co., Ltd.	4649	HALL D
Flexim Instruments	1652	HALL A
Flo Trend Systems, Inc.	5992	HALL F
Flomotion Systems, Inc.	5989	HALL F
Flottweg Centrifuge	5979	HALL F
Flow Control Magazine	3049	HALL C
Flow Control Magazine	3049	HALL C
Flow Science, Inc.	6294	HALL F
Flowline	4755	HALL D
Flowserve	1411	HALL A
Flowtronex PSI/ITT Ind.	4841	HALL D
Fluid Components Intl.	1926	HALL A
Fluid Dynamics, Inc.	1817	HALL A
Fluid Dynamics, Inc.	1817	HALL A
FluidIQs Inc.	6891E	HALL F
Fluidyne Corporation	2247	HALL B
FMC Corporation	5961	HALL F
Fontaine International Corp.	3017	HALL C
Force Flow	2426	HALL B
Ford Hall Company	5127	HALL D
Forester Communications	6190	HALL F
Fournier Industries Inc.	3439	HALL C
FPI Pumps, Inc.	3548	HALL C
Franklin Miller, Inc.	4327	HALL D
Freewave Technologies	6577	HALL F
Fresh Creek Technologies, Inc.	5885	HALL F
Frontier Technology, Inc.	5897	HALL F
FRP Manufacturing Inc.	6099	HALL F
Fusion Tanks & Silos	2412	HALL B
Future Pipe Industries	1852	HALL A
Fybroc Division, Met-Pro Corp.	1224	HALL A
G.U. Florida Inc.	6275	HALL F
GA Industries Inc.	4215	HALL C
GA Industries Inc.	4215	HALL C

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Gabriel Novac & Associates Inc.	2516	HALL B
Galvanic Applied Sciences Inc.	6898	HALL F
Gardner Denver Blower Division	2031	HALL B
Garner Pump & Sewer Hog- Sewer Equipment Div.	6387	HALL F
GBA Master Series, Inc.	4339	HALL D
GE Fanuc Automation	3815	HALL C
GE Sensing	6674	HALL F
GE Water & Process Technologies	3131	HALL C
General Chemical, LLC	4442	HALL D
Geodome	3419	HALL C
Geoflow, Inc.	4772	HALL E
Geomembrane Technologies Inc.	5189	HALL E
George Fischer Signet, Inc.	5397	HALL E
Geotech Environmental Equipment	5797	HALL F
Gillette Generators	1549	HALL A
Glass-Steel, Inc.	6593	HALL F
GLB, Inc.	3532	HALL C
Global Pump Co. LLC	1537	HALL A
GMF Gouda America, Inc.	6861	HALL F
Godwin Pumps	2723	HALL B
Golden Harvest, Inc.	1027	HALL A
Gorman-Rupp Co.	5231	HALL D
Goulds Pumps, Water Technology/ITT	4845	HALL D
Government Engineering	3542	HALL C
GP50	3012	HALL C
GPM Pumps, Inc.	3627	HALL C
Grande Water Management Systems	4332	HALL C
Graybar Electric Company	6980	HALL F
Great Plains Industries, Inc.	6860	HALL F
Green Mountain International	5984	HALL F
Greylime Instruments	6068	HALL F
Grindex Pumps	4752	HALL D
Griswold Water Technologies	6694	HALL F
Groth Corporation	1117	HALL A
Grundfos Pumps Corporation	6096	HALL F
GTI Testing Laboratories	1915	HALL A
Hach Company	4927	HALL D
HadroneX	1753	HALL A
Halliday Products Inc.	2021	HALL B
Hallsten Corporation	3917	HALL C
Halogen Valve Systems, Inc.	3638	HALL C
Hammonds Technical Services	6967	HALL F
Hancor, Inc.	1648	HALL A
Hanley Wood/Public Works Magazine	5893	HALL F
Hanna Instruments, Inc.	6186	HALL F
Hansen Information Technologies	3530	HALL C
HARCO Fittings	3545	HALL C

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

HARMSCO Filtration Products	7073	HALL F
Harrington Industrial Plastics	3146	HALL C
Harris & Associates	5892	HALL F
Harvel Plastics Inc.	2450	HALL B
Hayward Flow Control Systems	2452	HALL B
Hayward Gordon	2925	HALL B
Headworks	2810	HALL B
Healy-Ruff Company	6685	HALL F
Hendrick Screen Co.	1851	HALL A
Henry Pratt Company	1827	HALL F
Heraeus Quartz America	6060	HALL F
Hercules Industries Inc.	6786	HALL F
Heritage Manufacturing Co., Inc.	6286	HALL E
Hibon Inc.	3745	HALL C
Highland Tank	6579	HALL F
Hirschmann Automation and Control, Inc.	1515H	HALL A
Hi-Tech Environmental, Inc.	4997	HALL C
HLS Ecolo, Inc.	3829	HALL B
Hobas Pipe USA	2831	HALL A
Hoffman	1839	HALL F
Holland Pump	6884	HALL D
Homa Pump Technology	4443	HALL C
Honeywell Analytics	3544	HALL E
House Manufacturing Company, Inc.	4690	HALL A
Houston Service Industries	1337	HALL E
HTS, Inc. Consultants	4798	HALL F
Huber Technology, Inc.	5575	HALL E
Hurco Technologies, Inc.	5190	HALL A
HYBO, Inc.	1933	HALL F
HYDAC International	6192	HALL F
Hydranautics	2416	HALL B
Hydra-Tech Pumps, Inc.	6870	HALL B
Hydro Instruments	2551	HALL C
Hydro International	3711	HALL E
Hydro-Dyne Engineering, Inc.	5288	HALL A
Hydromantis	5491	HALL E
Hydromatic, A division of Pentair Water	1630	HALL A
Hydro-Thermal Corporation	1455	HALL C
Hydroxyl Systems Inc.	3612	HALL F
I. Kruger Inc.	1738A	HALL A
IBOCO Corporation	6991	HALL D
IC Controls	1850	HALL A
Iconics Inc.	6766	HALL F
IDEXX Laboratories	2438	HALL F
IEH Laboratories & Consulting Group	6863	HALL F
Impact Technologies, LLC	7097	HALL B
Induron Coatings Inc.	4018	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Industrial Diversified Products, Inc.	7089	HALL C
Industrial Test Systems	1925	HALL F
Infilco Degremont	4031	HALL A
Infrastructure Technologies, Inc.	6197	HALL C
Inland Empire Utilities Agency	6696	HALL F
Inland Waters Pollution Control, Inc.	1025	HALL F
Inliner Technologies	5151	HALL A
In-Pipe Technology	2141	HALL D
Insite Instrumentation Group	4975	HALL E
In-Situ Inc.	5097	HALL C
Insituform Technologies, Inc.	3331	HALL F
Insituform Technologies, Inc.	6987	HALL F
Instrument Control Systems, Inc.	6891B	HALL E
Integra, Inc.	5366	HALL F
Intek, Inc.	6083	HALL A
Intereco USA, Inc.	1948	HALL F
International Center for Water Technology	6782	HALL E
International Dioxide, Inc.	4685	HALL C
International Ozone Association	3038	HALL E
International Valve Marketing Inc.	5590	HALL F
International Water and Irrigation	6073	HALL A
Interon Engineered Products	1321	HALL B
Invensys	2550	HALL E
INVENT Umwelt - und Verfahrenstechnik AG	4897	HALL F
IPLUS, Inc. (International Pipe Lining)	6291	HALL F
ISA	6264	HALL F
ITOCHU Chemicals America Inc.	6680	HALL D
ITT Flygt Corporation	4831	HALL D
ITT Goulds Pumps Industrial & BioPharm Group	4945	HALL D
ITT Industries, Inc.	4940	HALL E
ITT Water Treatment - Leopold	5385	HALL D
ITT Water Treatment - PCI Membranes	5040	HALL D
ITT Water Treatment - Portacel	5042	HALL D
ITT Water Treatment - Royce Technologies	5041	HALL A
Itt Water Treatment - WEDECO	5045	HALL E
J & S Valve, Inc.	1904	HALL B
Jaeger Products Inc.	2015	HALL F
Janssen Process Company (The)	5988	HALL E
JDV Equipment Corp.	5285	HALL F
J-M Manufacturing Co., Inc.	4684	HALL B
Jogler, Inc.	6071	HALL A
John Crane Mechanical Seals	2051	HALL F
John Meunier Inc.	1738B	HALL F
John Wiley & Sons	5971	HALL D
Johnson Screens	5973	HALL D
JOWA Consilium	5139	HALL A
JPS Industries, Inc. and Its Subsidiaries	5157	HALL D

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

JUMO Process Control, Inc.	1449	HALL A
JWC Environmental	5253	HALL C
Kaeser Compressors, Inc.	3641	HALL B
Kee Industrial Products, Inc.	2408	HALL A
KEG Technologies, Inc.	1955	HALL F
Keller America, Inc.	6960	HALL C
Kemiron Companies, Inc.	3524	HALL C
Kenco Plastics Company, Inc.	3039	HALL F
Keppel Seghers Inc.	6665	HALL E
Kiewit Companies	4697	HALL A
Kinetrol USA, Inc.	1954	HALL F
Koch Membrane Systems, Inc.	5681	HALL C
Komax Systems, Inc.	4010	HALL D
Komline-Sanderson	4627	HALL F
Korea Environmental Institute Association	6490	HALL C
Koso America	3442	HALL C
KPSI Transducers Pressure Systems	3539	HALL F
Krofta Technologies, LLC	6569	HALL E
KROHNE, INC.	5077	HALL A
KSB, Inc.	6175	HALL F
K-Tork International, Inc.	1906	HALL B
Kufferath, Inc.	2436	HALL C
KWH Pipe LTD	3511	HALL F
KWI North America Corporation	6993	HALL A
KWS Manufacturing Co., Ltd.	1940	HALL F
KZCO, Inc.	6691	HALL D
Lakeside Equipment Corporation	4431	HALL D
LaMotte Co.	4852	HALL B
Lamson Vylon Pipe	2427	HALL B
Landia, Inc.	2422	HALL E
Lansas Products Manufactured by Vanderlans & Sons, Inc.	5091	HALL E
Lantec Products Inc.	5368	HALL C
Lapeyre Stair, Inc.	3538	HALL A
Larox Flowsys Inc.	1018	HALL A
Layfield Environmental Systems Corp	1752	HALL F
Layne Christensen Company	6587	HALL A
Lemna Technologies, Inc.	1953	HALL F
Light Environmental, Inc.	7095	HALL D
Lighthouse Filters, LLC	4757	HALL E
Linabond, Inc.	5177	HALL F
Liquid Analytical Resource, LLC.	5957	HALL E
Liquid Dynamics Corp.	5371A	HALL C
Liquid Waste Technology, LLC.	3431	HALL C
Logiball Inc.	2329	HALL A
Longwatch	1228	HALL A
LUDECA, INC.	1530	HALL E
LuminUltra Technologies Ltd.	5594	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Lutz -- JESCO America Corporation	2010	HALL F
M&H Valve Company	4854	HALL D
M&H Valve Company	4854	HALL D
Mabry Castings Ltd.	6480	HALL F
Machine Support, Inc.	6296	HALL F
Magnablend Inc.	1023	HALL A
MagnaDrive Corporation	5382	HALL E
Magna-Flow Environmental	6091	HALL F
Magnecraft	5763	HALL F
Maintstar, Inc.	6194	HALL C
Mar Mac Construction Products	3749	HALL C
Marsh-McBirney Inc.	3727	HALL F
Mass Transfer Systems	5769	HALL F
Masterliner Incorporated	6988	HALL E
Mazzei Injector Corporation	4024	HALL C
Metric Corporation	3915	HALL C
Metals & Materials Engineers (MME)	6583	HALL F
Metropolitan Industries, Inc.	6756	HALL F
MFG Environmental	5370	HALL E
MFG Water Treatment Products	5370	HALL E
MFG Water Treatment Products	5370	HALL E
Michels Corporation	6681	HALL F
MICROTEL, INC.	1125	HALL A
Microwave Data Systems Inc.	1515D	HALL A
Miller-Leaman, Inc.	1943	HALL A
Milliken Valve Company	2215	HALL B
Milton Roy	4740	HALL D
Milwaukee Instruments	2453	HALL B
MIOX Corporation	1803	HALL A
Mission Clay Products/NO-DIG Pipe	4233	HALL C
MISSION Communications	4766	HALL E
Mitsubishi Electric Power Products, Inc.	1916	HALL A
MixAir Technologies, Inc.	1749	HALL A
MJK	1423	HALL A
Mobrey Measurement, A Division of Emerson Process Management	2531	HALL B
Mobrey Measurement, A Division of Emerson Process Management	2531	HALL B
Mody Pumps, Inc.	4691	HALL E
Monoflo, Inc.	4786	HALL E
Morris Pumps	5056	HALL D
Morris Pumps	5056	HALL D
Moyno, Inc., A Unit of Robbins & Myers, Inc.	5050	HALL D
MSA Instrument Division	3430	HALL C
Multitrode	6373	HALL F
Municipal Solutions, Inc.	6779	HALL F
MWH Business Solutions	5492	HALL E
MWI Corporation	1215	HALL A
Myers, A division of Pentair Water	1632	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Myratek, Inc.	1918	HALL A
Myron L Company	1203	HALL A
NA Water Systems	1738D	HALL A
NA Water Systems	1738A	HALL A
NA Water Systems	1738A	HALL A
NASCO	6482	HALL A
NASSCO, Inc.	2938	HALL F
Natgun Corporation	4739	HALL B
National Association of Clean Water Agencies (NACWA)	3046	HALL D
National Clay Pipe Institute	4231	HALL C
National Environment Health Association	7098	HALL C
National Environmental Services Center	7092	HALL F
National Liner	5269	HALL F
National Onsite Wastewater Recycling Association	7090	HALL E
National Pump Company, LLC	4438	HALL F
NEFCO, Incorporated	1930	HALL D
Neptune Chemical Pump Co., Inc.	1817	HALL A
Netafim USA	2421	HALL A
NETZSCH Incorporated	6557	HALL B
Neuros Co., Ltd.	6881	HALL F
New Logic Research, Inc.	6997	HALL F
Next Evolution Water Solutions	6896	HALL F
NEXTChem Process Analyzers	6097	HALL F
Niles Steel Tank	6369	HALL F
NIVIS, LLC	6865	HALL F
Nobel Systems	2307	HALL F
Noram Engineering and Constructors, LTD.	3528	HALL B
Noren Products, Inc.	6771	HALL C
NORIT Americas Inc.	4776	HALL F
North American Pipe Corporation	6775	HALL E
North American Sensors Corp.	1911	HALL F
Northern Filter Media, Inc.	1912	HALL A
Nova Water Technologies, Inc.	6074	HALL A
Novapipe, A Lantor Group Company	2327	HALL F
Novozymes Biologicals, Inc.	6075	HALL B
NPC, Inc.	3045	HALL F
NRC Research Press	6466	HALL C
NRP, Inc.	1109	HALL F
NSF International	3910	HALL A
N-Tron Corporation	1515C	HALL C
Oclude	1650	HALL A
OCV Control Valves	4341	HALL D
Odor Control Specialties	6795	HALL F
OI Analytical	6498	HALL F
Oldcastle Precast	6476	HALL F
OMI Industries	4549	HALL D
ONSET Computer Corporation	1022	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Onyx Valve	5283	HALL E
OPS Systems Inc.	2303	HALL B
Orbeco-Hellige	1021	HALL C
Orbinox	6485	HALL A
Orival Water Filters	3827	HALL F
OR-TEC INC.	3743	HALL C
OTT Oxygen Transfer Technology by Hydro-Logic Environmental	6176	HALL F
Owen Engineering & Management Consultants, Inc.	5254	HALL D
Ozonia North America, Inc.	4027	HALL C
P.J. Hannah Equipment	2321	HALL B
Paco/Grundfos	4756	HALL D
Paints & Coatings, Inc.	6887	HALL F
Palintest	5899	HALL F
Pall Corporation	2435	HALL B
Palmer Mfg. & Tank, Inc.	2351	HALL B
Paratherm Corporation	6879	HALL F
Parkson Corporation	4851	HALL D
Peace Corps	6597	HALL F
Pearpoint, Inc.	4211	HALL C
Penn Valley Pump Co., Inc.	4331	HALL D
PEPCON Systems	4848	HALL D
PeriFlo Pumps	7070	HALL F
Petersen Products Co.	1331	HALL A
Philadelphia Mixing Solutions	3125	HALL C
Phoenix Contact	6975	HALL F
Phoenix Digital Corporation	1515F	HALL A
PHOENIX Process Equipment Co.	4345	HALL D
Pick Heaters, Inc.	3142	HALL C
Pioggia Carnevali Spa	6785	HALL F
Pioneer Pump, Inc.	5775	HALL F
Pioneer Water Tanks - A Bluescope Water Company	2455	HALL B
Plas-Tanks Industries, Inc.	3144	HALL C
Plast-O-Matic Valves, Inc.	5792	HALL F
PMP Precision Valve Co. Ltd.	5791	HALL F
PollardWater.com	5997	HALL F
Pollution Engineering Magazine	1004	HALL A
POLLUTION EQUIPMENT NEWS / Rimbach Publishing	4730	HALL D
Poly Processing Company	5273	HALL E
Polychem Systems, Division of Brentwood Industries, Inc.	2239	HALL B
PolyPipe, Inc.	4732	HALL D
Porex Filtration	6972	HALL F
Power Prime Pumps	2214	HALL B
PPG Industries, Inc.	3610	HALL C
Praher Canada Products Ltd.	1548	HALL A
PRD Tech Inc.	1127	HALL A
Precision Systems	1903	HALL A
Premier-Pipe USA	1019	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Price Brothers Company	5695	HALL A
Prime Controls LP	6873	HALL F
Prime Solution, Inc.	1239	HALL F
Probiotic Solutions	5274	HALL A
Process Measurement	5990	HALL F
Processing Magazine/Flow Control	3049	HALL E
Proco Products, Inc.	4643	HALL F
Procorp, Inc.	6087	HALL F
Procorp, Inc.	6087	HALL F
ProMinent Fluid Controls, Inc.	2221	HALL C
ProSoft Technology	1515E	HALL D
Pro-tech Systems Group	6891F	HALL B
PSI-Thunderline/Link-Seal(R)	5226	HALL A
Public Works Marketing Inc.	1128	HALL D
Pulsafeeder, Inc.--A Unit of IDEX Corporation	4762	HALL A
Pulsar, Inc.	5596	HALL E
Pulsed Hydraulics, Inc.	6263	HALL E
Pumps & Systems Magazine	6581	HALL F
Pumps and Controls Inc.	67102	HALL F
Purafil Environmental Systems	3025	HALL F
Pure Air Filtration	2650	HALL C
Pure Process Systems, Inc.	1655	HALL B
PW Eagle, Inc.	6764	HALL A
Q.C.E.C.	6381	HALL F
QDS Systems	6891D	HALL F
Quality Manufacturing Company	2002	HALL F
Quanics, Inc.	6797	HALL B
Quay Technologies Ltd.	4686	HALL F
R.D. Zande & Associates	1432	HALL E
R.S. Technical Services, Inc.	4775	HALL A
RACO Manufacturing and Engineering Co., Inc.	2121	HALL E
Rain for Rent	2115	HALL B
Rapid View IBAK USA	4338	HALL B
Rauschert Process Technologies, Inc.	1910	HALL C
Raven Lining Systems	4669	HALL A
RDP Technologies Inc.	4117	HALL E
RED Flint Sand and Gravel	1026	HALL C
Red Valve Company Inc.	2003	HALL A
Redzone Robotics, Inc.	4688	HALL B
Reline America	6463	HALL E
Renaissance Instruments Inc.	5250	HALL F
Renda Envionmental	6799	HALL D
Republic Blower Systems	5395	HALL F
Revere Control Systems, Inc.	6891A	HALL E
RJN Group, Inc.	3531	HALL F
Robicon	2503	HALL B
Robicon	2523	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Robicon	2702	HALL B
Robicon	2503	HALL B
Robicon	2523	HALL B
Robicon	2702	HALL B
Robo-Control(R)	2425	HALL C
ROBUSCHI USA, Inc.	6281	HALL C
Rockwell Automation/Allen-Bradley	1515	HALL B
Rodney Hunt Company	4215	HALL F
Roebic Laboratories, Inc.	1755	HALL A
Romac Industries	1944	HALL C
Romtec Utilities, Inc.	5877	HALL A
RootX Root Control Corp.	2911	HALL A
Rose + Bopla Enclosures	7091	HALL F
Rosemount Analytical Inc.	2531	HALL B
Rosemount Analytical Inc.	2531	HALL B
Ross Valve Mfg Co., Inc.	2345	HALL B
ROTO-MIX LLC	2448	HALL F
Rotork Controls, Inc.	4743	HALL B
RPS Engineering Inc.	5975	HALL B
Rural Community Assistance Partnership	7096	HALL D
S & N Airoflo	5167	HALL F
S&B Technical Products	7083	HALL F
s::can Measuring Systems	6869	HALL F
SABAS Pipeline Systems LLC	2103	HALL E
Saehan Industries Inc.	6687	HALL F
Safe Drain, Inc.	6070	HALL F
Samjin Precision Co., Ltd.	6682	HALL B
Sanitaire -- Div. of ITT Ind.	5030	HALL F
Sartorius Corporation	6661	HALL F
Sauereisen, Inc.	5374	HALL F
SCALETRON INDUSTRIES LTD.	1653	HALL D
Schaeffler Group USA	1853	HALL F
Schlumberger Water Services	6061	HALL E
Schneider Electric - Water Wastewater Competency Center	6981	HALL A
Schreiber LLC	2131	HALL A
Schroeder Industries LLC	6462	HALL F
Schwing Bioset, Inc.	4885	HALL F
Scientific Technologies Inc.	3640	HALL B
Seacon Brantner	3518	HALL F
SealGuard, Inc.	3013	HALL E
Sealing Systems, Inc.	3024	HALL C
See Water Inc.	5891	HALL C
Seepage Control, Inc.	6669	HALL C
seepex, Inc.	4991	HALL C
Selwood Limited	6479	HALL F
Senex Corporation	4794	HALL F
SENSAPHONE	6759	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Sensorex	4641	HALL F
Sereco S.R.L.	6078	HALL E
Serpentix Conveyor Corporation	5143	HALL F
Sethco Division, Met-Pro Corp.	1224	HALL A
Sethco Division, Met-Pro Corp.	1224	HALL A
Severn Trent Services	1525	HALL D
Sewer History Exhibit	2940	HALL F
SEW-Eurodrive, Inc.	5263	HALL D
SewperCoat	6163	HALL A
SGS	6363	HALL E
Shand & Jurs, an L&J Technologies Company	1029	HALL B
Shanghai Olive Industries Co., Ltd.	1941	HALL F
Shanley Pump & Equipment, Inc.	2541	HALL F
Shaw Environmental	3337	HALL A
Shelter Works	6390	HALL A
Sherwin-Williams Co.	6077	HALL B
Shimadzu	3514	HALL C
Siemens	2503	HALL F
Siemens	2523	HALL F
Siemens	2702	HALL C
Siemens Automation & Drives	2503	HALL B
Siemens Automation & Drives	2523	HALL B
Siemens Automation & Drives	2702	HALL B
Siemens Automation & Drives	2503	HALL B
Siemens Automation & Drives	2523	HALL B
Siemens Automation & Drives	2702	HALL B
Siemens Building Technologies, Inc.	2503	HALL B
Siemens Building Technologies, Inc.	2523	HALL B
Siemens Building Technologies, Inc.	2702	HALL B
Siemens Building Technologies, Inc.	2503	HALL B
Siemens Building Technologies, Inc.	2523	HALL B
Siemens Building Technologies, Inc.	2702	HALL B
Siemens Energy and Automation	2503	HALL B
Siemens Energy and Automation	2523	HALL B
Siemens Energy and Automation	2702	HALL B
Siemens Energy and Automation	2503	HALL B
Siemens Energy and Automation	2523	HALL B
Siemens Energy and Automation	2702	HALL B
Siemens Financial Services, Inc.	2503	HALL B
Siemens Financial Services, Inc.	2523	HALL B
Siemens Financial Services, Inc.	2702	HALL B
Siemens Financial Services, Inc.	2503	HALL B
Siemens Financial Services, Inc.	2523	HALL B
Siemens Financial Services, Inc.	2702	HALL B
Siemens Water Technologies	2503	HALL B
Siemens Water Technologies	2523	HALL B
Siemens Water Technologies	2702	HALL B

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Siemens Water Technologies	2503	HALL B
Siemens Water Technologies	2523	HALL B
Siemens Water Technologies	2702	HALL B
Sierra Instruments, Inc.	5493	HALL B
Singer Valve Inc.	5391	HALL B
Sioux Corporation	6288	HALL B
SJE-Rhombus	5276	HALL E
SK Chemicals, Co. Ltd.	6769	HALL E
Smith & Loveless Inc.	2043	HALL F
SmithCo Side-Dump Trailers	1118	HALL E
SNF Polydyne	4330	HALL F
Solar Environmental Services	2648	HALL B
SolarBee--Pump Systems, Inc.	4780	HALL A
Solinst Canada Ltd.	5266	HALL C
Sonic Solutions, LLC	1216	HALL B
Southern Sewer Equipment Sales	3646	HALL E
Spaans Babcock Inc.	3911	HALL E
Sparling Instruments, Inc.	6763	HALL A
Spears Manufacturing Company	3116	HALL C
Spectrashield Liner Systems	6160	HALL C
Spectrum Equipment Partners, Ltd.	3015	HALL F
Spirac (USA) Inc.	4838	HALL C
SPL World Group, Inc.	3515	HALL F
SPM Instrument Inc.	4695	HALL C
Sprayroq, Inc.	3817	HALL F
SPX Cooling Technologies	6169	HALL D
SRS Crisafulli, Inc. (also known as Crisafulli Pump Company)	2431	HALL C
SSPC: The Society for Protective Coatings	6894	HALL E
STABILOC	3547	HALL C
Stahlin Non Metallic Enclosures	6858	HALL F
Stainless Piping Specialists	1751	HALL B
Stamford Scientific International, Inc. (SSI)	6287	HALL F
Standard Alloys	5986	HALL C
Star Filters	1554	HALL F
Stevens Water Monitoring Systems, Inc.	4842	HALL A
STI Controls	1121	HALL F
Stockholm International Water Institute	2931	HALL F
Stormceptor/Imbrium Systems Corp.	1227	HALL A
StormTrap	2643	HALL D
Straub Pipe Coupling	5890	HALL A
Strongwell	4753	HALL B
Submersible Wastewater Pump Association (SWPA)	4750	HALL A
SubSurface Leak Detection Inc.	4790	HALL B
Sulzer Chemtech	1919	HALL F
Sulzer Pumps	6392	HALL D
Sunlight Systems Ultraviolet	1014	HALL D
Superior Signal Co., Inc.	3010	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

Superior Tank Co., Inc.	5155	HALL A
Swaby-Lobeline Pump Co.	5687	HALL F
Swan Analytical Instruments, AG	5063	HALL A
Sweco, A Business Unit of M-I SWACO	1353	HALL C
SymCom, Inc.	2309	HALL D
Synagro	4026	HALL F
T.D. Williamson, Inc.	6495	HALL E
T.T. Technologies, Inc.	5495	HALL A
Tank Connection, LLC	1010	HALL B
TC Communications	6789	HALL C
Technical and Industrial Products	2016	HALL B
Technical and Industrial Products	2016	HALL B
TEFSA-USA	6584	HALL F
Teledyne ISCO	3117	HALL A
Telog Instruments, Inc.	4318	HALL F
Temcor	2430	HALL F
Tennessee Valley Authority	4736	HALL C
Terra Renewal Services, Inc.	6299	HALL C
Tetra Tech, Inc.	6599	HALL B
Texas Commission on Environmental Quality	6592	HALL D
The BILCO Company	2530	HALL F
The Mastrrr Company	5185	HALL F
The Pressure Pipe Inspection Co.	4796	HALL F
The Roberts Filter Group	3912	HALL E
The Spencer Turbine Company	6391	HALL A
Thermal Process Systems	1924	HALL E
Thermo Electron Corporation	4769	HALL D
Thern Inc.	5141	HALL E
Thompson Pump	4563	HALL F
Tipton Environmental International, Inc.	6875	HALL F
Titon Energy Inc.	6396	HALL D
Tnemec Company, Inc.	4527	HALL C
Topp Industries, Inc.	4111	HALL F
Toray Industries, Inc.	5965	HALL C
Toshiba International Corporation	3916	HALL F
TraceDetect, Inc.	6890	HALL F
Trenchless Technology	6172	HALL B
Trihedral Engineering Limited	2506	HALL A
TriSep Corporation	1807	HALL D
Trojan Technologies	4531	HALL F
Troy Valve	6757	HALL F
Trumbull Industries	6780	HALL F
Tsurumi Pump America Inc.	5587	HALL E
Turblex Inc.	4225	HALL C
Tuthill Vacuum & Blower Systems	3621	HALL C
Tyco Flow Control	2333	HALL B
U.S. Department of Agriculture, Rural Development	7094	HALL D

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

U.S. Department of Commerce	2843	HALL F
U.S. Environmental Protection Agency	65101	HALL B
U.S. Geological Survey	2943	HALL F
U.S. Pipe and Foundry Co.	5087	HALL B
U.S. Water News	3443	HALL E
U.S.F. Fabrication, Inc.	3630	HALL C
U-Liner	4734	HALL C
Ultraflore Corporation	1431	HALL A
Ultraliner, Inc.	4011	HALL C
Underground Construction	3925	HALL C
Underground Solutions, Inc.	6774	HALL F
Underwriters Laboratories Inc.	5895	HALL F
Uni-Bell PVC Pipe Association	4657	HALL D
United Blower	6157	HALL F
United Rentals Pump Power & HVAC	2548	HALL B
University of Denver	6973	HALL F
URS	1927	HALL A
US Peroxide	4639	HALL D
US Polymers Inc.	6964	HALL F
US Saws	6057	HALL F
USA Tank Storage Systems	6087	HALL F
USABlueBook	2403	HALL B
USFilter	2503	HALL B
USFilter	2523	HALL B
USFilter	2702	HALL B
USFilter	2503	HALL B
USFilter	2523	HALL B
USFilter	2702	HALL B
USPoly Company	6760	HALL F
Utility Systems, Science & Software, Inc.	5871	HALL F
VAC-CON, INC.	1902	HALL F
Vactor Manufacturing	2651	HALL A
Val-Matic Valve & Mfg. Corp.	2227	HALL B
Valve and Filter Corp.	1848	HALL B
Vanton Pump & Equipment Corp.	1327	HALL A
Vapex, Inc.	3014	HALL A
Varec Biogas	3029	HALL C
Vaughan Company, Inc.	4963	HALL C
Veolia Water Solutions & Technologies	1738C	HALL E
Veolia Water Solutions & Technologies	1738A	HALL A
Veolia Water Solutions & Technologies	1738A	HALL A
Victaulic	4677	HALL A
Viking Chains Inc./VC Chains Corporation	5496	HALL E
Viscotherm	1534	HALL E
VitAG, LLC	1216	HALL A
VitAG, LLC	1216	HALL A
Vogelsang	5857	HALL A

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

V-Ram Solids	6598	HALL F
Vulcan Industries, Inc.	5363	HALL E
Vynckier Enclosure Systems, Inc.	5967	HALL F
Wachs Utility Services	5795	HALL F
Wade & Associates, Inc.	3927	HALL C
Walker Process Equip. Div. of McNish Corp.	3231	HALL F
Wallingford Software, Inc.	3239	HALL C
Wanner Engineering	6196	HALL C
Warminster Fiberglass.com	5149	HALL C
Wasser	2014	HALL F
Wasser Berlin/Messe Berlin GmbH	4698	HALL D
Waste News	5998	HALL B
Wastecorp. Pumps	2917	HALL E
Wastequip	6697	HALL F
Waste-Tech Inc.	6471	HALL F
Water & Wastes Digest	2030	HALL B
Water & Wastewater Equipment Manufacturers Association, Inc.	3040	HALL F
Water & Wastewater Products Magazine/Environmental Protection	2512	HALL B
Water Environment Research Foundation	3030	HALL C
Water Online	4314	HALL B
Water Technology Magazine	1024	HALL C
Water Technology Resources	4680	HALL C
WateReuse Association	2939	HALL A
Waterloo Biofilter Systems Inc.	3541	HALL E
Waterman Industries	6888	HALL B
WaterWorld/Industrial WaterWorld	4638	HALL C
Watson-Marlow Bredel Pumps	1309	HALL F
WBE Dorcas, Inc. / Dinjer	6796	HALL D
Weatherford International	6594	HALL A
WEG Electric Motors	1349	HALL A
Weir Washer Automated Cleaning Systems	3516	HALL C
WELL WASHERS USA	5790	HALL F
WEMCO Pump	5371	HALL E
Wenzhou Changmi Airtight Manufacturing Company	6072	HALL F
Wenzhou Greatork Apparatus Co., Ltd.	5969	HALL F
Wess Global, Inc.	4696	HALL E
WestTech Engineering, Inc.	3525	HALL C
Westfalia Separator, Inc.	5227	HALL D
Westfall Manufacturing Co.	1129	HALL A
Weston Solutions, Inc. (WESTON(R))	2429	HALL B
Whirlygig Company	3440	HALL C
WIKA Instrument Corporation	5378	HALL E
Wil-loc Inc.	6082	HALL F
WILO-EMU USA LLC	5781	HALL F
WinCan America, Inc.	3341	HALL C
Wolf Creek Company, Inc.	2325	HALL B
World Pumps /Filtration + Separation	4670	HALL E

WEFTEC.06
EXHIBITOR LIST – ALPHA ORDER
AS OF 9/21/2006

World Water Center	3044	HALL C
World Water Works, Inc.	1220	HALL A
WTP Equipment Corp.	5490	HALL E
WTW	5245	HALL D
XP Software	4012	HALL C
Yardney Water Filtration Systems	6088	HALL F
Yeomans Chicago Corporation	5056	HALL D
Yeomans Pump	5056	HALL D
Yeomans Pump	5056	HALL D
YSI Incorporated	4427	HALL D
Zebron Corporation	6064	HALL F
Zoeller Engineered Products	2402	HALL B



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FS/TEC 2006 Partial Exhibitor List with Booth Number

Accuvia -----	733
AuBeta Networks-----	1148
Avocent-----	248
BigHoller-----	105
BIXOLON Co., Ltd. -----	344
BlueCube Software -----	1034
Caption, Inc.-----	1141
ChefTec / Culinary Software Service, Inc.-----	1150
ChockStone, Inc.-----	650
Citizen Systems America Corporation-----	917
Comdata, formerly Stored Value Systems -----	439
Commeg Systems, Inc.-----	858
Compeat Restaurant Accounting Systems -----	921
Cooper-Atkins Corporation-----	1056
CrunchTime! Information Systems -----	947
Ctuit, Inc.-----	552
Decision Logic -----	1140
Delphi Display Systems -----	925
Deterministics -----	857
Digi International -----	1152
Digital Dining -----	544
Dinerware -----	910
e*Restaurant from Altametrics-----	834
e*Restaurant from Altametrics-----	433
Eatec Corporation-----	847
EBN Technology Corporation -----	1247
EMN8, Inc.-----	350
ENS - Engineered Network Systems, Inc.-----	757
Epicure Digital Menu Systems-----	1235
Epson America, Inc.-----	718
Ernex -----	951
ESP Systems -----	1233
ExaDigm, Inc.-----	958
Exametric -----	758
Firich USA, Inc.-----	838
First Data -----	828
FreePour Controls -----	448

FS/TEC 2006 Partial Exhibitor List with Booth Number

Fujitsu Transaction Solutions -----	445
Givex USA -----	856
Gulfcoast Software Solutions -----	656
Hospitality Solutions International -----	811
Hospitality Technology-----	953
HotSchedules Workforce Solutions -----	1140
Howard Company-----	1058
Hula Software, Inc. -----	345
HyperActive Technologies -----	817
IBM Corporation -----	710
InfoGenesis-----	1053
Information Builders -----	1251
InfoSoft Technologies-----	545
Integrated Control Corporation-----	232
Jacent Technologies -----	113
KAMI Industrial Co., Ltd. -----	1024
Leveler Protective Technology-----	926
Logic Controls-----	231
Lone Tree Technology, Inc. -----	246
Long Range Systems-----	1246
M-S Cash Drawer-----	103
MacromatiX-----	109
Main Street Softworks, Inc.-----	962
Mainstreet Menu -----	1058
Maitre'D by Posera -----	745
McBride M-Power Nationwide -----	924
MegaPath, Inc. -----	457
MenuLink Computer Solutions-----	728
Merchant Link, LLC -----	1253
Merchant Warehouse -----	1057
MICROS Systems, Inc. -----	510
Microsoft Corporation-----	301
mUrgent Corporation-----	556
myprint -----	446
National Repair Center, Inc.-----	853
NCR Corporation-----	331
New Edge Networks-----	239
NextChoice -----	1125

FS/TEC 2006 Partial Exhibitor List with Booth Number

NEXTEP Systems -----	739
NTN Integrated Solutions -----	535
OCx Network Consultants -----	238
OTI America -----	550
Panasonic System Solutions Company -----	635
PAR -----	316
Paytronix Systems, Inc. -----	929
PCMS -----	450
Peppercoin-----	756
POS Credit Corporation -----	851
POSitouch -----	1131
Pro-Tech Solutions, Inc. -----	651
Protech Technologies, Inc. -----	761
QSR Automations-----	639
QTime Solutions, LLC -----	557
Quality Retail Systems-----	952
Quick Service Software, Inc. -----	245
Radiant Systems -----	308
RedPrairie/BlueCube Software -----	1034
Restaurant Magic Software-----	107
Restaurant Net Profit-----	1126
Restaurant Technology, Inc. (RTI) -----	941
Retail Data Systems-----	1128
Retail Tech, Inc. -----	1052
Retail Technology Group-----	339
RoboServer Systems Corporation-----	657
RPower Restaurant POS -----	1151
RSS Partners, Inc. -----	1231
SageNet -----	744
Seamark International, LLC -----	950
SmartConnect, Inc. -----	235
SoftTouch POS -----	230
Sonata Software-----	453
SonicWALL, Inc.-----	912
Southern DataComm, Inc. -----	1147
Spacenet, Inc.-----	539
Star Micronics America, Inc. -----	825
Takeout Technologies -----	220

FS/TEC 2006 Partial Exhibitor List with Booth Number

TATUNG Company of America-----	956
TechTeam Global, Inc. -----	829
TekVisions, Inc.-----	244
Telequip Corporation-----	451
Televerify, LLC-----	236
Tellermate, Inc.-----	827
Telsource Corporation-----	946
Texas Digital -----	1046
TimeManagement Corporation -----	553
Torex Hospitality -----	626
TPG - Transaction Printer Group -----	551
TransAct Technologies - Ithaca Printers -----	841
UAS, Inc. -----	1249
VeriFone, Inc. -----	645
ViaSat, Inc. -----	351
WAND Corporation -----	850
Wandering WiFi -----	957
Wavesoft Technologies Corporation -----	959
Wincor Nixdorf -----	424
XPIENT Solutions, LLC-----	427



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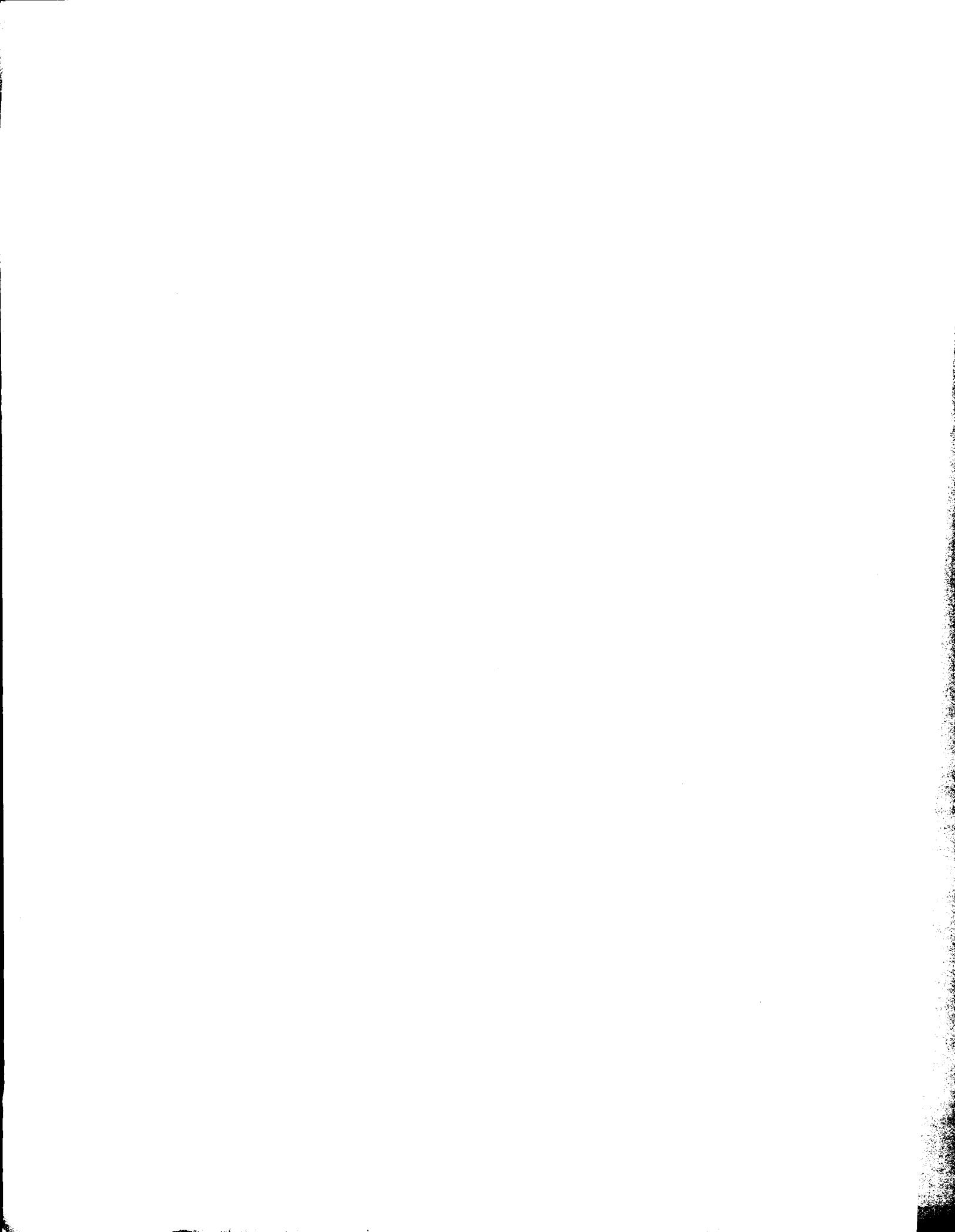
Exhibitor Name	Exhibitor Type	Booth Number
Accu-Sort Systems	Encompass Partner	656
ACME Electric Corp.	Encompass Partner	1102
Advanced Micro Controls Inc.	Encompass Partner	810
AFAST Robotics	Encompass Partner	539
AirLink Communications, Inc.	Encompass Partner	537
alpha gear drives inc.	Encompass Partner	426
American Power Conversion (APC)	Encompass Partner	947
Ametek Automation & Process Technologies	Encompass Partner	1031
Amphenol-Sine Systems	Encompass Partner	303
ARCO Electric Products	OEM	1006
Autodesk, Inc.	Encompass Partner	536
Automation World	Magazine	1056
Balogh T.A.G. Corporation	Encompass Partner	903
Belden CDT Electronics Division	Encompass Partner	803
Block USA LP	Encompass Partner	1146
Bonitron Inc.	Encompass Partner	1124
Brady Corporation	Encompass Partner	818
Burkert Contromatic Corp.	Encompass Partner	941
Case Western Reserve University	University	1053
Chemical Processing	Magazine	1052
Cisco Systems Inc.	Encompass Partner	337
Cleveland State University	University	1057
Cognex Corporation	Encompass Partner	811
CommScope	Encompass Partner	503

Consulting-Specifying Engineer	Magazine	955
Control	Magazine	1052
Control Chief Corporation	Encompass Partner	715
Control Concepts Corporation	Encompass Partner	505
Control Design	Magazine	1052
Control Engineering	Magazine	955
Cooper Bussmann	Encompass Partner	542
Cooper Crouse-Hinds	Encompass Partner	541
Data-Linc Group	Encompass Partner	812
Datalogic, Inc.	Encompass Partner	101
Dataradio COR Ltd.	Encompass Partner	649
Design News	Magazine	955
Digi International	Encompass Partner	915
ECT International, Inc.	Encompass Partner	231
Electronic Systems Technology - ESTeem	Encompass Partner	911
Elwood Corporation	Encompass Partner	645
Endress+Hauser	Encompass Partner	110
Engineered Solutions	Rockwell Automation	831
EtherNet/IP	Rockwell Automation	630
Escort Memory Systems	Encompass Partner	101
Essential Components	Rockwell Automation	1131
Ferraz Shawmut	Encompass Partner	225
Festo Corporation	Encompass Partner	200
FieldServer Technologies	Encompass Partner	935
Fifo Technologies, Inc.	OEM	660
FireBus Systems Inc.	Encompass Partner	643
Fluke Corporation	Encompass Partner	602
Fluke Corporation	Encompass Partner	603
Food Engineering	Magazine	1064
Frontline Test Equipment	Encompass Partner	907
Global Industry Solutions	Rockwell Automation	819
Grace Engineered Products	Encompass Partner	326
Hardy Instruments	Encompass Partner	240
Helm Instrument Co. Inc.	Encompass Partner	711
Hilscher	Encompass Partner	1004
Hiprom Technologies	Encompass Partner	702
Hirschmann Electronics Inc.	Encompass Partner	125

HK Systems, Inc.	Solution Provider	119
HMS Industrial Networks AB	Encompass Partner	1047
Hoffman	Encompass Partner	211
Hubbell Wiring Device-Kellems	Encompass Partner	1005
IAN Inside Products	Magazine	955
IDEAS Simulation & Control	Encompass Partner	235
IEN	Magazine	1060
Integrated Architecture	Rockwell Automation	508
Intelligent Motor Control	Rockwell Automation	1111
ISA	Magazine	1062
The JOURNAL	Magazine	951
Laservall North America LLC	Encompass Partner	101
Leviton Manufacturing	Encompass Partner	902
Littlefuse Inc.	Encompass Partner	1025
Machine Design	Magazine	967
Maintenance Technology	Magazine	965
Managing Automation	Magazine	1066
Manufacturing Business Technology	Magazine	955
Marathon Technologies	Encompass Partner	641
Matrix Technologies, Inc	Solution Provider	606
Mettler-Toledo Inc.	Encompass Partner	1023
Microwave Data Systems	Encompass Partner	719
Milile Applied Research Co. Inc.	Encompass Partner	807
Milwaukee School of Engineering	University	1055
MTE Corporation	Encompass Partner	1030
N-Tron Corporation	Encompass Partner	731
NASCAR	Rockwell Automation	553
NEC Solutions (America) Inc.	Encompass Partner	750
Network Vision, Inc.	Encompass Partner	647
Northwest Analytical, Inc.	Encompass Partner	752
Numatics Inc.	Encompass Partner	723
Online Development Inc.	Encompass Partner	849
Packaging Digest	Magazine	955
Packaging World	Magazine	1056
Panduit	Encompass Partner	1041
Parker Pneumatic Division	Encompass Partner	335
Pepperl + Fuchs, Inc.	Encompass Partner	1010

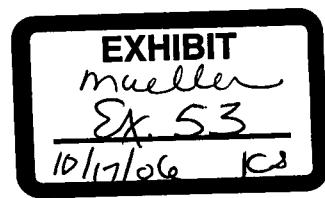
Phoenix Digital Corporation	Encompass Partner	400
Plant Engineering	Magazine	955
Plant Services	Magazine	1052
Polytron, Inc.	Solution Provider	1029
Post Glover Resistors	Encompass Partner	1106
Powerohm Resistors Inc.	Encompass Partner	1126
ProSoft Technology	Encompass Partner	1011
Proven Solutions	Rockwell Automation	401
Purdue University	University	1156
Quest Technical Solutions	Encompass Partner	704
Reimelt Corporation	Solution Provider	124
Remote Access	Rockwell Automation	1028
Rice Lake Weighing Systems	Encompass Partner	545
River Consulting	Solution Provider	931
Rockwell Software	Rockwell Automation	642
S&C Electric Company - Power Quality Products Division	Encompass Partner	1019
Safety	Rockwell Automation	527
Services & Support	Rockwell Automation	841
SMC Corporation of America	Encompass Partner	753
SoftSwitching Technologies	Encompass Partner	549
Sola/Hevi-Duty	Encompass Partner	351
Specter Instruments	Encompass Partner	1002
Spectrum Controls Inc.	Encompass Partner	109
Stratus Technologies	Encompass Partner	406
Symbol Technologies, Inc.	Encompass Partner	754
Texas A&M University	University	1152
Thomas & Betts	Encompass Partner	230
TopWorx	Encompass Partner	706
Trans-Coil Inc.	Encompass Partner	1132
University of Wisconsin - Madison	University	1154
ValueStream	Magazine	951
Vigilistics, Inc.	Encompass Partner	647
Vishay BLH	Encompass Partner	402
Weed Instrument Co.	Encompass Partner	607
Westlock Controls Company	Encompass Partner	1014
Woodhead	Encompass Partner	345

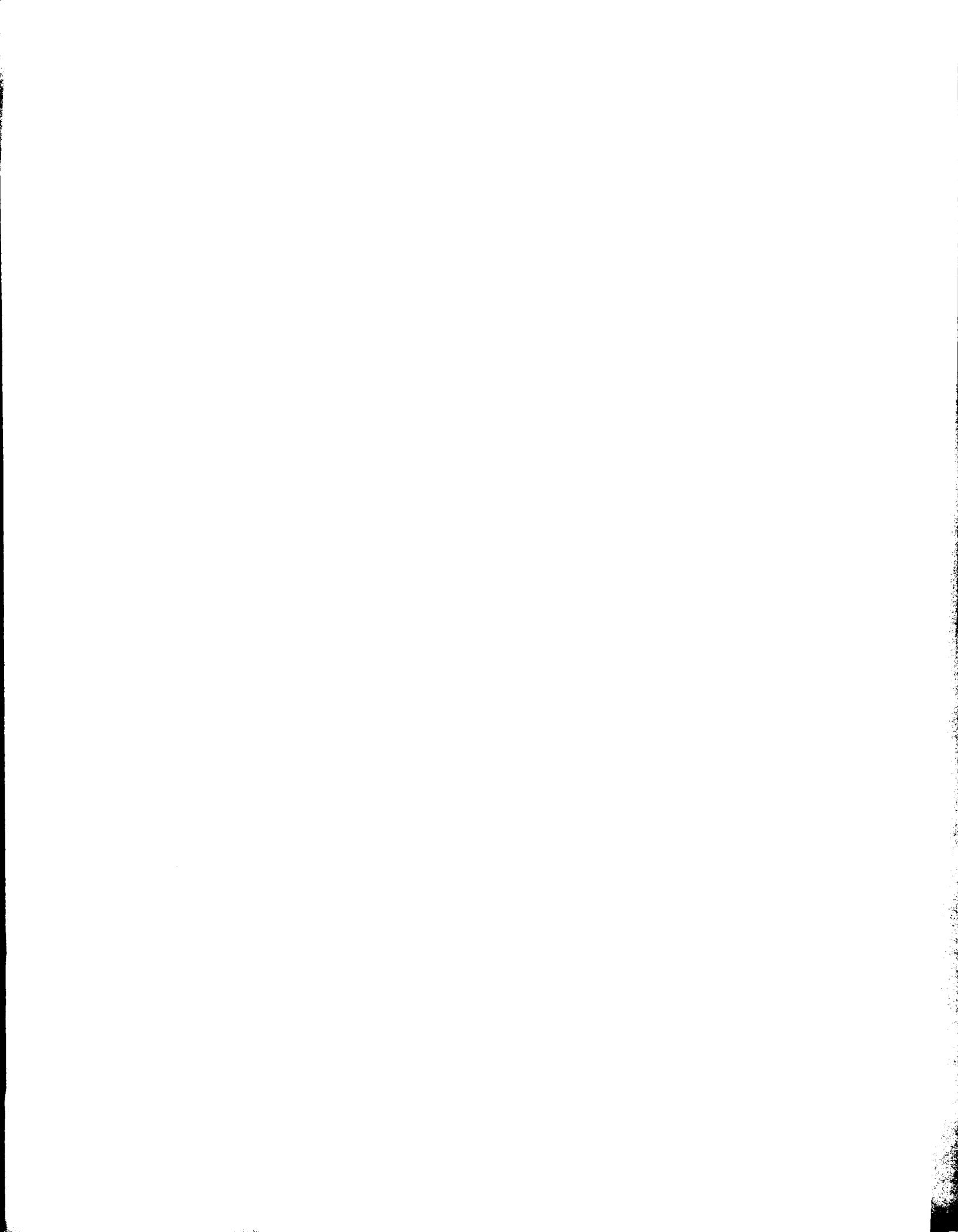
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Digi International Inc. Annual Revenue

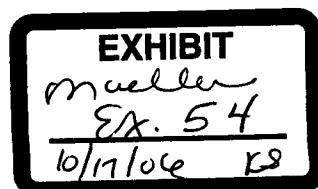
Fiscal Year	Net Sales	
	(In thousands)	
2005	\$ 125,198	Source: <i>Digi International Fiscal 2005 Annual Report</i>
2004	\$ 111,226	Source: <i>Digi International Fiscal 2005 Annual Report</i>
2003	\$ 102,926	Source: <i>Digi International Fiscal 2005 Annual Report</i>
2002	\$ 101,536	Source: <i>Digi International Fiscal 2002 Annual Report</i>
2001	\$ 130,405	Source: <i>Digi International Fiscal 2002 Annual Report</i>
2000	\$ 132,525	Source: <i>Digi International Fiscal 2002 Annual Report</i>
1999	\$ 193,506	Source: <i>Digi International Fiscal 2002 Annual Report</i>
1998	\$ 182,932	Source: <i>Digi International Fiscal 1998 Annual Report</i>
1997	\$ 165,598	Source: <i>Digi International Fiscal 1998 Annual Report</i>
1996	\$ 193,151	Source: <i>Digi International Fiscal 1998 Annual Report</i>
1995	\$ 164,978	Source: <i>Digi International Fiscal 1998 Annual Report</i>
1994	\$ 130,945	Source: <i>Digi International Fiscal 1998 Annual Report</i>
1993	\$ 93,385	Source: <i>Digi International Fiscal 1993 Annual Report</i>
1992	\$ 70,867	Source: <i>Digi International Fiscal 1993 Annual Report</i>
1991	\$ 50,866	Source: <i>Digi International Fiscal 1993 Annual Report</i>
1990	\$ 31,902	Source: <i>Digi International Fiscal 1993 Annual Report</i>
1989	\$ 22,251	Source: <i>Digi International Fiscal 1993 Annual Report</i>
1988	\$ 8,422	Source: <i>Digi International Fiscal 1990 Annual Report</i>
1987	\$ 3,723	Source: <i>Digi International Fiscal 1990 Annual Report</i>
1986	\$ 1,544	Source: <i>Digi International Fiscal 1990 Annual Report</i>



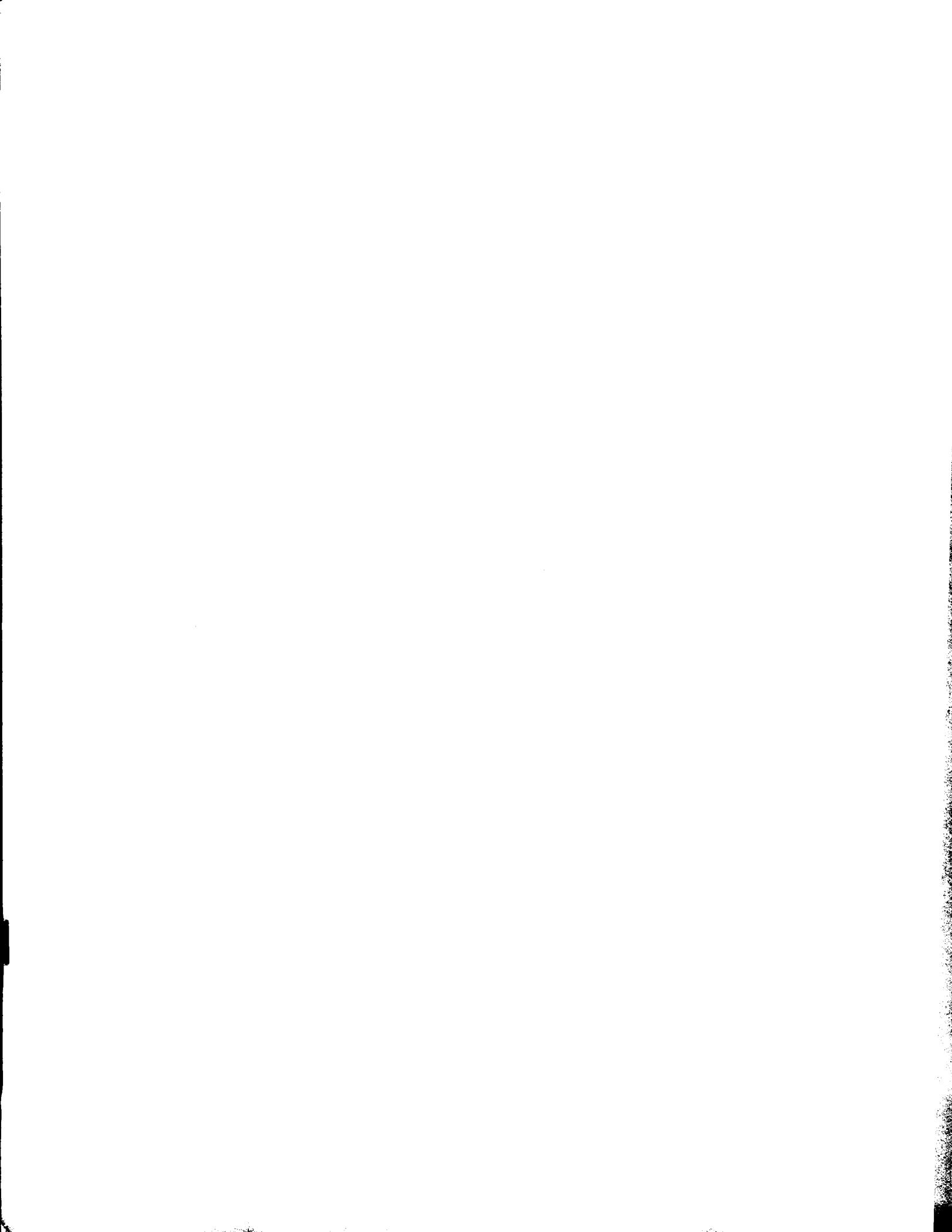


Revenue by Geographic Segments

Net Sales		
(In thousands)		
FY 2005		
U.S.	\$ 72,004	<i>Source: Digi International Fiscal 2005 Annual Report</i>
International	\$ 53,194	<i>Source: Digi International Fiscal 2005 Annual Report</i>
FY 2004		
U.S.	\$ 61,881	<i>Source: Digi International Fiscal 2005 Annual Report</i>
International	\$ 49,345	<i>Source: Digi International Fiscal 2005 Annual Report</i>
FY 2003		
U.S.	\$ 66,410	<i>Source: Digi International Fiscal 2005 Annual Report</i>
International	\$ 36,516	<i>Source: Digi International Fiscal 2005 Annual Report</i>
FY 2002		
U.S.	\$ 69,554	<i>Source: Digi International Fiscal 2002 Annual Report</i>
International	\$ 31,882	<i>Source: Digi International Fiscal 2002 Annual Report</i>
FY 2001		
U.S.	\$ 87,371	<i>Source: Digi International Fiscal 2002 Annual Report</i>
International	\$ 43,034	<i>Source: Digi International Fiscal 2002 Annual Report</i>
FY 2000		
U.S.	\$ 86,407	<i>Source: Digi International Fiscal 2002 Annual Report</i>
International	\$ 46,118	<i>Source: Digi International Fiscal 2002 Annual Report</i>
FY 1999		
U.S.	\$ 126,166	<i>Source: Digi International Fiscal 1999 Annual Report</i>
International	\$ 67,340	<i>Source: Digi International Fiscal 1999 Annual Report</i>
FY 1998		
U.S.	\$ 136,284	<i>Source: Digi International Fiscal 1999 Annual Report</i>
International	\$ 46,648	<i>Source: Digi International Fiscal 1999 Annual Report</i>
FY 1997		
U.S.	\$ 121,052	<i>Source: Digi International Fiscal 1999 Annual Report</i>
International	\$ 44,546	<i>Source: Digi International Fiscal 1999 Annual Report</i>
FY 1996		
U.S.	\$ 154,521	<i>Source: Digi International Fiscal 1998 Annual Report</i>
International	\$ 38,630	<i>Source: Digi International Fiscal 1998 Annual Report</i>
FY 1995		
U.S.	\$ 160,155	<i>Source: Digi International Fiscal 1996 Annual Report</i>
International	\$ 32,996	<i>Source: Digi International Fiscal 1996 Annual Report</i>



	<u>FY 1994</u>	
U.S.	\$ 103,447	<i>Source: Digi International Fiscal 1996 Annual Report</i>
International	\$ 27,498	<i>Source: Digi International Fiscal 1996 Annual Report</i>



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ITEM 6. SELECTED FINANCIAL DATA

(in thousands except per common share amounts and number of employees)

For the fiscal years ended September 30	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>	<u>2001</u>
Net sales	<u>\$ 125,198</u>	<u>\$ 111,226</u>	<u>\$ 102,926</u>	<u>\$ 101,536</u>	<u>\$ 130,405</u>
Gross profit	\$ 75,682	\$ 67,783	\$ 61,346	\$ 55,524	\$ 64,212
Sales, marketing, general and administrative	41,894	38,843	40,258	48,364	46,968
Research and development	16,531	17,159	15,968	19,530	18,335
Restructuring	-	-	(600)	2,696	1,121
Acquired in-process research and development	300	-	-	3,100	-
Loss on sale of MiLAN assets	-	-	-	3,617	-
Gain from forgiveness of grant payable	-	-	(553)	(1,068)	-
Operating income (loss)	<u>16,957</u>	<u>11,781</u>	<u>6,273</u>	<u>(20,715)</u>	<u>(2,212)</u>
Total other income, net	<u>1,026</u>	<u>369</u>	<u>296</u>	<u>1,255</u>	<u>2,397</u>
Income (loss) before income taxes and cumulative effect of accounting change	17,983	12,150	6,569	(19,460)	185
Income tax provision (benefit)	318	3,487	(23)	(6,675)	66
Income (loss) before cumulative effect of accounting change	<u>17,665</u>	<u>8,663</u>	<u>6,592</u>	<u>(12,785)</u>	<u>119</u>
Cumulative effect of accounting change	-	-	(43,866)	-	(1,902)
Net income (loss)	<u><u>\$ 17,665</u></u>	<u><u>\$ 8,663</u></u>	<u><u>\$ (37,274)</u></u>	<u><u>\$ (12,785)</u></u>	<u><u>\$ (1,783)</u></u>
Net income (loss) per common share, basic:					
Income (loss) before cumulative effect of accounting change	\$ 0.79	\$ 0.41	\$ 0.31	\$ (0.65)	\$ -
Cumulative effect of accounting change	-	-	(2.08)	-	(0.12)
Net income (loss) per common share	<u>\$ 0.79</u>	<u>\$ 0.41</u>	<u>\$ (1.77)</u>	<u>\$ (0.65)</u>	<u>\$ (0.12)</u>
Net income (loss) per common share, diluted:					
Income (loss) before cumulative effect of accounting change	\$ 0.76	\$ 0.39	\$ 0.31	\$ (0.65)	\$ -
Cumulative effect of accounting change	-	-	(2.07)	-	(0.12)
Net income (loss) per common share	<u>\$ 0.76</u>	<u>\$ 0.39</u>	<u>\$ (1.76)</u>	<u>\$ (0.65)</u>	<u>\$ (0.12)</u>
Working capital (total current assets less total current liabilities)	\$ 69,995	\$ 82,090	\$ 57,793	\$ 62,662	\$ 74,233
Total assets	177,631	150,465	132,540	180,828	139,453
Long-term debt and capital lease obligations	1,181	-	-	4,989	5,499
Stockholders' equity	153,537	127,079	105,863	151,180	112,917
Book value per common share	6.78	5.83	5.23	6.80	7.39
Number of employees	481	341	358	407	425

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

6. SEGMENT INFORMATION AND MAJOR CUSTOMERS (CONTINUED)

The Company considers operating income (loss) to be the primary measure by which it measures the operating performance of each segment. A reconciliation of the Company's consolidated segment operating income (loss) to consolidated income before income taxes and cumulative effect of accounting change follows (in thousands):

	Year Ended September 30,		
	2005	2004	2003
Operating income - Connectivity Solutions	\$ 21,461	\$ 22,707	\$ 19,070
Operating loss - Device Networking Solutions	<u>(4,504)</u>	<u>(10,926)</u>	<u>(12,797)</u>
	<u>16,957</u>	<u>11,781</u>	<u>6,273</u>
Other income, net	<u>1,026</u>	<u>369</u>	<u>296</u>
Consolidated income before income taxes and cumulative effect of accounting change	<u>\$ 17,983</u>	<u>\$ 12,150</u>	<u>\$ 6,569</u>

The information in the following table is based upon the geographic location of the customer for the years ended September 30, 2005, 2004 and 2003 (in thousands):

Revenue derived by geographic location:

	Year Ended September 30,		
	2005	2004	2003
United States	\$ 72,004	\$ 61,881	\$ 66,410
Europe	29,380	23,090	22,842
Asia Pacific	22,167	25,717	13,206
Other international	<u>1,647</u>	<u>538</u>	<u>468</u>
	<u>\$ 125,198</u>	<u>\$ 111,226</u>	<u>\$ 102,926</u>

Net long-lived assets by geographic location:

	As of September 30,		
	2005	2004	2003
United States	\$ 76,663	\$ 32,715	\$ 36,014
International, primarily Europe	<u>9,162</u>	<u>6,152</u>	<u>7,477</u>
	<u>\$ 85,825</u>	<u>\$ 38,867</u>	<u>\$ 43,491</u>

The Company's U.S. export sales comprised 42.5%, 44.2% and 35.5% of net sales for the years ended September 30, 2005, 2004 and 2003, respectively.

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02

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ITEM 6. SELECTED FINANCIAL DATA

(IN THOUSANDS EXCEPT PER SHARE AMOUNTS AND NUMBER OF EMPLOYEES)

For the fiscal years ended September 30	<u>2002</u>	<u>2001</u>	<u>2000</u>	<u>1999</u>	<u>1998</u>
Net sales	\$ 101,536	\$ 130,405	\$ 132,525	\$ 193,506	\$ 182,932
Impairment loss	-	-	(26,146)	-	-
Restructuring	2,696	1,121	1,382	607	1,020
Acquired in-process research and development	3,100	-	-	-	16,065
Loss on sale of MiLAN assets	(3,617)	-	-	-	-
Gain from forgiveness of grant payable	1,068	-	-	-	-
AetherWorks Corporation gain	-	-	-	-	1,350
AetherWorks Corporation note recovery	-	-	8,000	-	-
(Loss) income before cumulative effect of accounting change	(12,785)	119	(16,825)	3,192	(71)
Cumulative effect of accounting change	-	(1,902)	-	-	-
Net (loss) income	(12,785)	(1,783)	(16,825)	3,192	(71)
Net (loss) income per common share - basic:					
Before cumulative effect of accounting change	(0.65)	-	(1.12)	0.22	(0.01)
Cumulative effect of accounting change	-	(0.12)	-	-	-
Net (loss) income per common share - assuming dilution:					
Before cumulative effect of accounting change	(0.65)	-	(1.12)	0.22	(0.01)
Cumulative effect of accounting change	-	(0.12)	-	-	-
Working capital	62,662	74,233	78,085	59,946	37,896
Total assets	180,828	139,453	142,922	176,330	191,521
Long-term debt	4,989	5,499	7,081	9,206	11,124
Stockholders' equity	151,180	112,917	113,459	127,164	121,251
Book value per share	6.80	7.39	7.45	8.52	8.34
Number of employees	407	425	525	583	703

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

7. SEGMENT INFORMATION AND MAJOR CUSTOMERS (CONTINUED)

Summary financial data by business segment is presented below for the year ended September 30, 2002:

(In thousands)

	Connectivity Solutions	Embedded Networking Solutions	Total
Net sales	\$ 86,790	\$ 14,746	\$ 101,536
Operating loss	(8,779)	(11,935)	(20,714)
Total assets	\$ 114,858	\$ 65,970	\$ 180,828

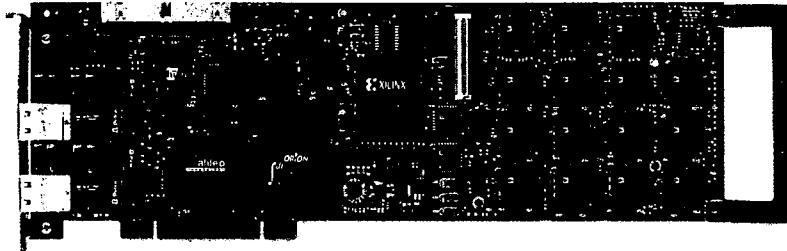
The Company considers operating income (loss) to be the primary measure by which it measures the operating performance of each segment. A reconciliation of the Company's consolidated segment operating (loss) income to consolidated (loss) income before income taxes and cumulative effect of accounting change for the years ended September 30 is as follows:

(In thousands)	<u>2002</u>	<u>2001</u>	<u>2000</u>
Operating (loss) income - Connectivity Solutions	\$ (8,779)	\$ (2,212)	\$ (31,831)
Operating loss - Embedded Networking Solutions	<u>(11,935)</u>	<u>-</u>	<u>(31,831)</u>
Other income, net	<u>1,255</u>	<u>2,396</u>	<u>10,668</u>
Consolidated (loss) income before income taxes and cumulative effect of accounting change	<u>\$ (19,459)</u>	<u>\$ 184</u>	<u>\$ (21,163)</u>

The operations of the Company are primarily conducted in the United States, the Company's country of domicile. The data in the tables below are determined by reference to the location of the Company's operations in the United States, Japan and Europe for the years ended September 30:

Revenue derived by geographic location:

	Year Ended September 30,		
	<u>2002</u>	<u>2001</u>	<u>2000</u>
United States	\$ 78,953,661	\$ 111,832,491	\$ 114,066,232
Japan	2,662,527	-	-
Europe	<u>19,919,759</u>	<u>18,572,254</u>	<u>18,458,398</u>
	<u>\$101,535,947</u>	<u>\$130,404,745</u>	<u>\$132,524,630</u>



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1999 ANNUAL REPORT

99

This annual report, including the data set forth below, should be read in conjunction with Digi International Inc.'s Annual Report on Form 10-K for the year ended September 30, 1999, which includes Digi's financial statements, notes thereto and other information regarding the company.

FINANCIAL HIGHLIGHTS

	1999	1998	1997	1996	1995
Net sales	\$ 193,506	\$ 182,932	\$ 165,598	\$ 193,151	\$ 164,978
Less cost of sales	16,065				
Gross margin	607	1,020	10,472		
Less research and development expenses			(5,764)	(3,624)	
Less selling, general and administrative expenses			1,350	(5,759)	
Less depreciation and amortization	7,979	9,213	(15,699)	16,805	29,366
Less interest expense	3,192	(71)	(15,791)	9,300	19,331
Less interest income	0.22	(0.01)	(1.18)	0.70	1.42
Less taxes on income from foreign operations	0.22	(0.01)	(1.18)	0.68	1.39
Less net effect of discontinued operations	14,711	13,730	13,393	13,324	13,656
Less corporate overhead and spending					
Less stock options	14,831	13,730	13,393	13,583	13,907
Total net income	\$ 59,946	\$ 37,896	\$ 61,979	\$ 69,696	\$ 74,061
Less dividends	16,330	191,521	118,311	129,939	126,043
Less capital expenditures	127,164	121,251	95,471	109,943	105,827
Less cash dividends	8.52	8.34	7.09	8.24	7.82
Less capital contributions	583	703	481	698	605

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

5. SEGMENT INFORMATION AND MAJOR CUSTOMERS

The Company operates in one reportable segment as defined in FAS 131. The operations of the Company are primarily conducted in the United States, the Company's country of domicile. Geographic data, determined by references to the location of the Company's operations for the years ended September 30, are as follows:

Revenue by geographic area:

	Year Ended September 30,		
	1999	1998	1997
United States	\$164,329,109	\$171,385,998	\$159,262,803
Europe	26,948,248	9,573,107	5,093,731
Asia	1,249,157	1,205,606	845,453
Australia	<u>979,545</u>	<u>766,959</u>	<u>395,950</u>
	<u><u>\$193,506,059</u></u>	<u><u>\$182,931,670</u></u>	<u><u>\$165,597,937</u></u>

Long-lived assets by geographic area:

	Year Ended September 30,		
	1999	1998	1997
United States	\$40,921,789	\$48,218,876	\$30,154,985
Foreign	<u>37,125,699</u>	<u>49,374,482</u>	<u>339,308</u>
Total long-lived assets	<u><u>\$78,047,488</u></u>	<u><u>\$97,593,358</u></u>	<u><u>\$30,494,293</u></u>

The Company's foreign export sales, primarily to Europe, comprised 34.8%, 25.5%, and 26.9% of net sales for the years ended September 30, 1999, 1998 and 1997, respectively.

During 1999, one customer accounted for 15.4% of net sales and 8.7% of the trade accounts receivable as of September 30, 1999, while another accounted for 13.4% of net sales and 22.5% of the trade accounts receivable as of September 30, 1999.

During 1998, one customer accounted for 15.5% of net sales and 26% of the trade accounts receivable as of September 30, 1998, while another accounted for 13.7% of net sales and 10% of the trade accounts receivable as of September 30, 1998.

During 1997, one customer accounted for 15.1% of net sales while another accounted for 10.5% of net sales. In addition, one customer accounted for 28% of the trade accounts receivable outstanding as of September 30, 1997.

6. INVESTMENT IN AETHERWORKS CORPORATION

In May 1998, the Company exchanged its previously purchased \$13,796,525 of convertible notes from AetherWorks Corporation, a development stage company engaged in the development of wireless and dial-up remote access technology, for a non-interest bearing \$8,000,000 non-convertible note. As a part of the exchange, the Company relinquished its rights to any future technology or claims on any of AetherWorks' intellectual properties. In exchange, the Company has been released from all of its

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Digi International is a leading worldwide provider of data communications products for open systems, server-based remote access, Internet telephony, and local area network (LAN) applications. Digi's communications products, which support the broadest range of server platforms and network operating systems in the industry, enable people to access information no matter where they are

when they need it, or what type of computer they're using.

Digi's products are marketed through a global network of distributors, system integrators, original equipment manufacturers (OEMs), as well as thousands of value-added resellers (VARs). Digi's connectivity solutions are recognized for their industry-leading reliability and customer service.

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Letter to Stockholders	2
Market Overview	6
Digi At-A-Glance	8
Glossary	16
Selected Financial Information	17
Management's Discussion and Analysis	17
Financial Statements	25
Notes to Financial Statements	29
Report of Independent Accountants	38

DIGI'S PRODUCTS HELP PEOPLE ACCESS INFORMATION, NO MATTER WHERE IT

»

	1998	1997	1996	1995	1994
Net sales	\$182,932	\$165,998	\$193,151	\$164,978	\$130,945
Acquired in-process research and development	39,200				
Restructuring	4,020	(10,472)			
AetherWorks Corporation net operating loss	(5,764)	(3,624)			
AetherWorks Corporation gain (write-off)	1,350	(5,759)			
(Loss) income before taxes	(12,914)	(15,699)	16,805	19,566	25,361
Net (loss) income	(22,659)	(15,791)	9,800	19,331	15,761
Net (loss) income per share - basic	(1.65)	(1.18)	0.70	1.42	1.17
Net (loss) income per share - assuming dilution	(1.65)	(1.18)	0.68	1.39	1.16
Weighted average shares outstanding - basic	13,730	13,393	13,324	13,056	14,262
Weighted average shares outstanding - assuming dilution	13,730	13,393	13,583	13,907	14,472
Working capital	\$3,578,95	\$1,61,979	\$1,69,595	\$1,74,061	\$1,72,871
Total assets	160,735	118,311	129,339	116,043	102,753
Stockholders' equity	94,821	55,771	109,043	105,827	91,113
Book value per share	6.95	7.09	8.24	7.82	7.64
Number of employees	703	481	698	605	530

Unaudited. Incentive per share amounts, percentages and numbers of employees.

of the Board of Directors. The Company accrued \$240,000 as a matching contribution for 1998. No Company contribution was made in 1997 or 1996.

15 > FOREIGN SALES AND MAJOR CUSTOMERS

Foreign export sales, primarily to Europe, comprised 21.1%, 23.9%, and 20.0% of net sales for the years ended September 30, 1998, 1997 and 1996, respectively.

During 1998, one customer accounted for 15.5% of net sales and 26% of the trade accounts receivable as of September 30, 1998, while another accounted for 13.7% of net sales and 10% of the trade accounts receivable as of September 30, 1998.

During 1997, one customer accounted for 15.1% of net sales while another accounted for 10.5% of net sales. In addition, one customer accounted for 28% of the trade accounts receivable outstanding as of September 30, 1997.

During 1996, one customer accounted for 13.9% of net sales and 11.8% of accounts receivable as of September 30, 1996, while another accounted for 13.4% of net sales and 14.3% of accounts receivable as of September 30, 1996.

16 > GEOGRAPHIC SEGMENTS

Summary information regarding the Company's operations in the United States and international markets is presented below. International consists primarily of European operations.

	1998	1997	1996
NET SALES			
United States	\$171,385,998	\$160,181,397	\$188,897,751
International	11,545,672	5,416,540	4,253,147
Total	\$182,931,670	\$165,597,937	\$193,150,898
OPERATING INCOME (LOSS)			
United States	\$ 24,519,769	\$ 6,037,670	\$ 19,682,936
International	(381,838)	103,548	414,411
Total (1)	\$ 24,137,931	\$ 6,141,218	\$ 20,097,347
IDENTIFIABLE ASSETS			
United States	\$138,552,610	\$116,100,151	\$128,820,114
International	22,182,057	2,211,185	1,118,715
Total	\$160,734,667	\$118,311,336	\$129,938,829

(1) Excludes acquired in-process research and development charge of \$39,200,000 for the year ended September 30, 1998 and also excludes \$1,020,000 and \$10,471,482 of restructuring charges for the years ended September 30, 1998 and 1997, respectively.

17 > FOURTH QUARTER INFORMATION

A provision for inventory obsolescence of \$1.9 million was recorded during the three-month period ended June 30, 1998. This provision was reversed during the three-month period ended September 30, 1998.

18 > CONTINGENCIES

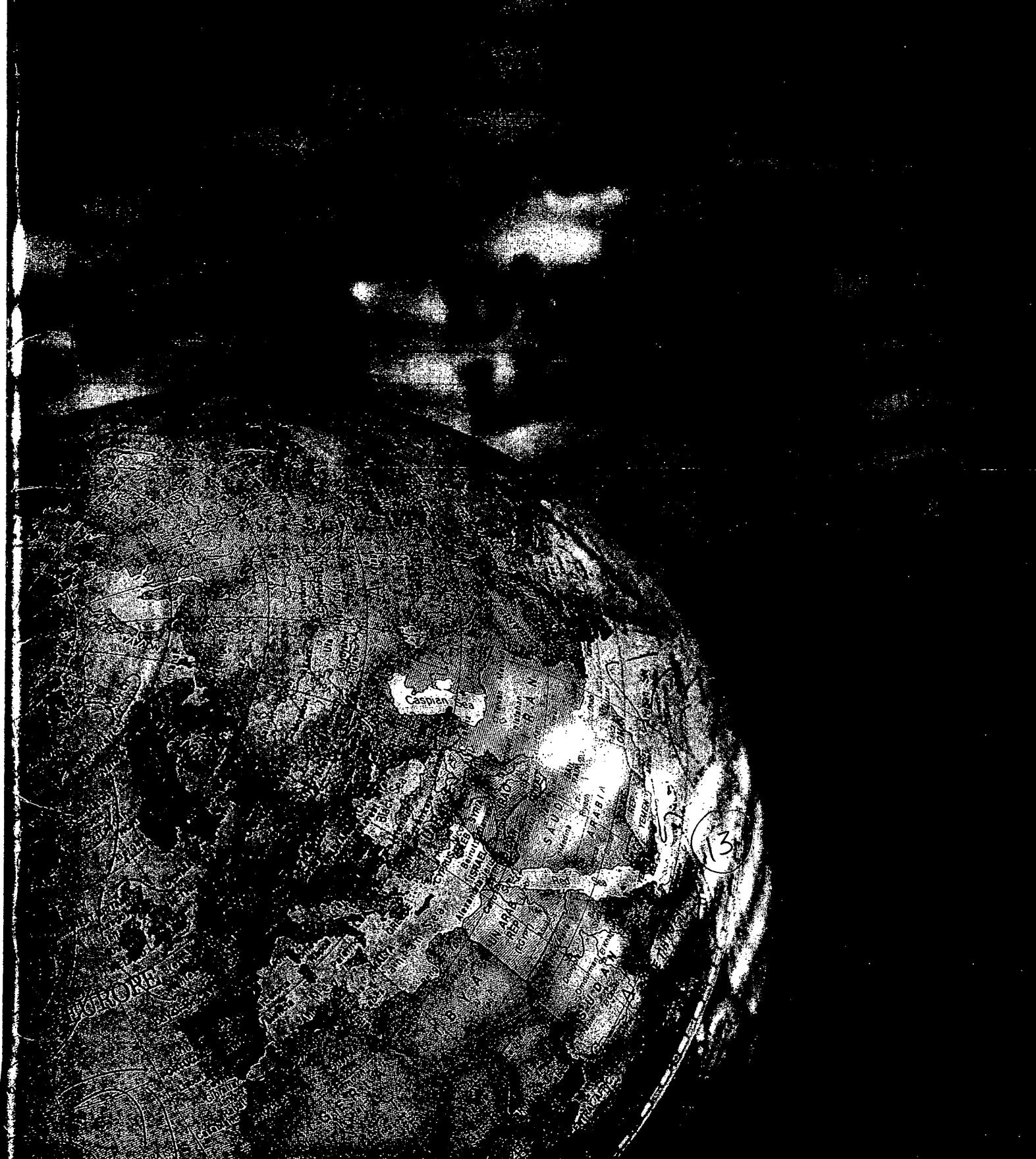
During fiscal 1997, the Company and certain of its previous officers were named as defendants in a series of putative securities class action lawsuits in the United States District Court for the District of Minnesota on behalf of an alleged class of purchasers of its common stock during the period January 25, 1996 through December 23, 1996, inclusive, which were consolidated, through a Consolidated Amended Complaint filed in May 1997. Also in 1997, a similar but separate action was filed by the Louisiana State Employees Retirement System. The Consolidated Amended Complaint and the Louisiana Amended Complaint allege the Company and certain of its previous officers violated federal securities laws by, among other things, misrepresenting and/or omitting material information concerning the Company's operations and financial results. The Louisiana Amended Complaint also alleges misrepresentations in violation of state common law.

In a decision issued on May 22, 1998, the District Court granted in part and denied in part the motions of the Company and its three former officers to dismiss the Consolidated Amended Complaint and the Louisiana Amended Complaint. The Court dismissed without leave to replead all claims asserted in both cases, except for certain federal securities law claims based upon alleged misrepresentations and/or omissions relating to the accounting treatment applied to the Company's AetherWorks investment. The Court also limited the claims asserted in the Louisiana Amended Complaint to the 11,000 shares of the Company's stock held subsequent to November 14, 1996. These claims remain pending against the Company and two of its former officers, Ervin F. Kamm, Jr. and Gerald A. Wall. Discovery in the actions is proceeding.

Because the lawsuits are in preliminary stages, the ultimate outcomes cannot be determined at this time, and no potential assessment of the probable or possible effects of such litigation, if any, on the Company's financial position, liquidity or future operations can be made.

In the normal course of business, the Company is subject to various claims and litigation. Management of the Company expects that these various litigation items will not have a material adverse effect on the results of operations or financial condition of the Company.

INVESTING IN HIGH GROWTH MARKETS

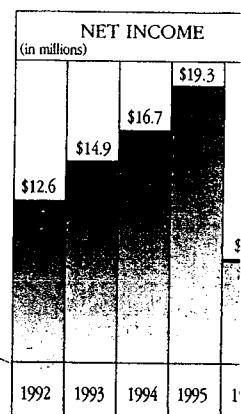
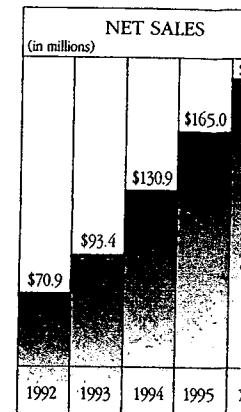


DIGI INTERNATIONAL • 1996 ANNUAL REPORT

Financial Highlights

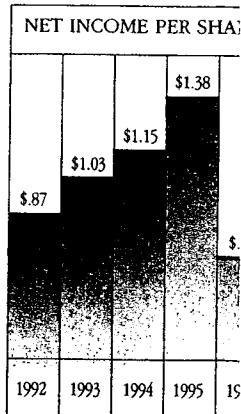
<i>for the years ended September 30</i>	1996	1995	1994	1993	1992
Net sales	\$ 195,833	\$ 164,978	\$ 130,945	\$ 93,385	\$ 70,867
AetherWorks Corporation net loss	(3,624)	—	—	—	—
Income before taxes	16,805	29,366	25,351	22,510	18,256
Net income	9,300	19,331	16,701	14,905	12,555
Net income per share	.69	1.38	1.15	1.03	.87
Average shares outstanding	13,523	14,048	14,511	14,564	14,443
Working capital	\$ 69,696	\$ 74,061	\$ 72,671	\$ 69,648	\$ 56,147
Total assets	129,939	126,043	102,758	88,859	69,788
Stockholders' equity	109,943	105,827	91,113	80,467	64,076
Book value per share	8.24	7.82	6.64	5.68	4.58
Return on sales	4.8%	11.7%	12.8%	16.0%	17.7%
Number of employees	698	605	430	333	266

(In thousands except per share amounts, percentages and number of employees.)



Selected Financial Information

	1996	1995	1994	1993	1992
Net sales	\$ 195,833	\$ 164,978	\$ 130,945	\$ 93,385	\$ 70,867
% change	19%	26%	40%	32%	39%
Net income	9,300	19,331	16,701	14,905	12,555
% change	(52)	16	12	19	54
Net income per share	.69	1.38	1.15	1.03	.87
% change	(50)	20	12	18	36
Total assets	129,939	126,043	102,758	88,859	69,788
% change	3	23	16	27	24
Stockholders' equity	109,943	105,827	91,113	80,467	64,076
% change	4	16	13	26	25

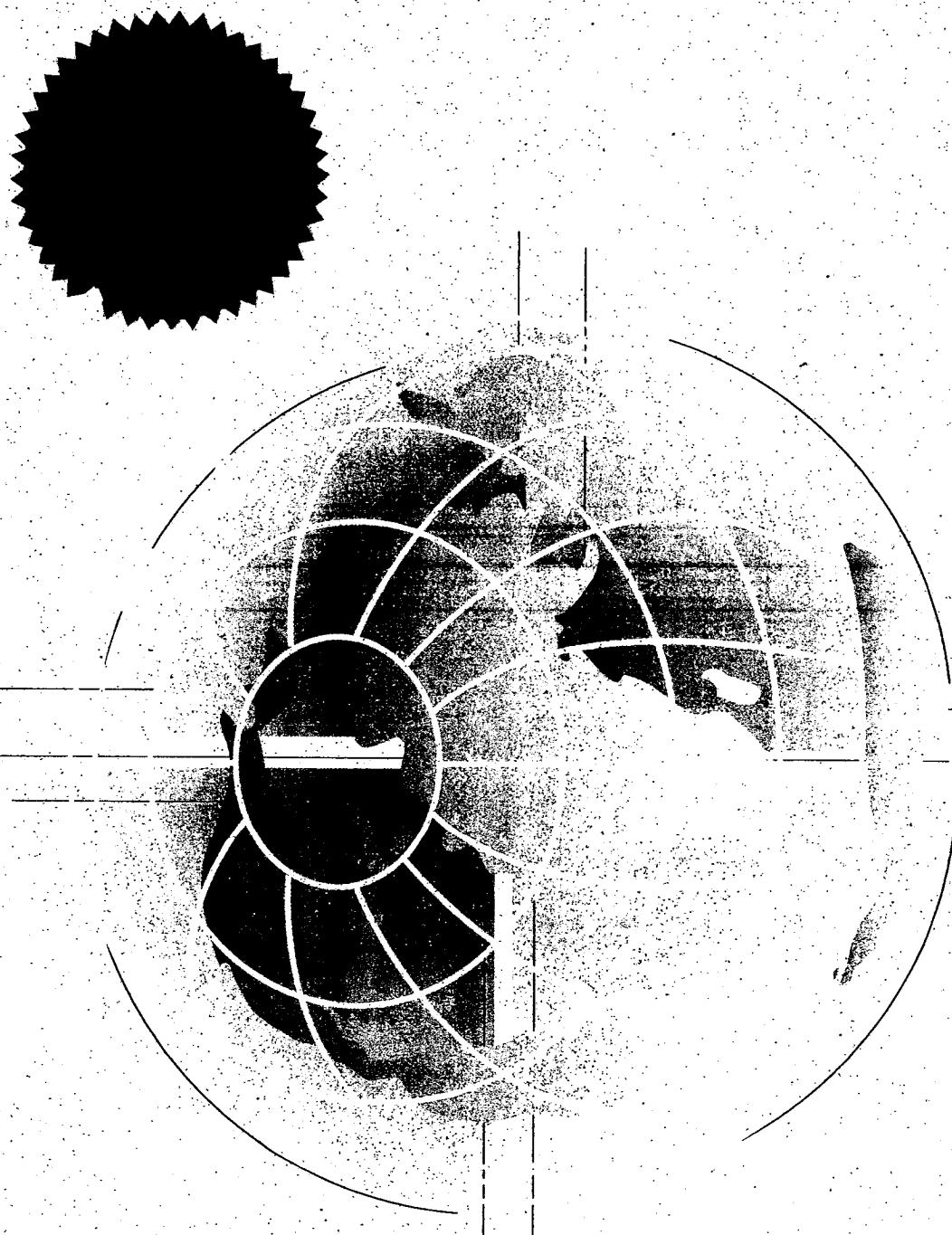


(In thousands except per share amounts and percentages. Percentage change represents percent increase (decrease) over previous year.)

D I N T E R N A T I O N A L - N C

1993

A N N U A L R E P O R T



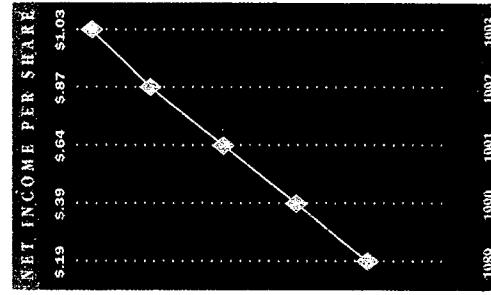
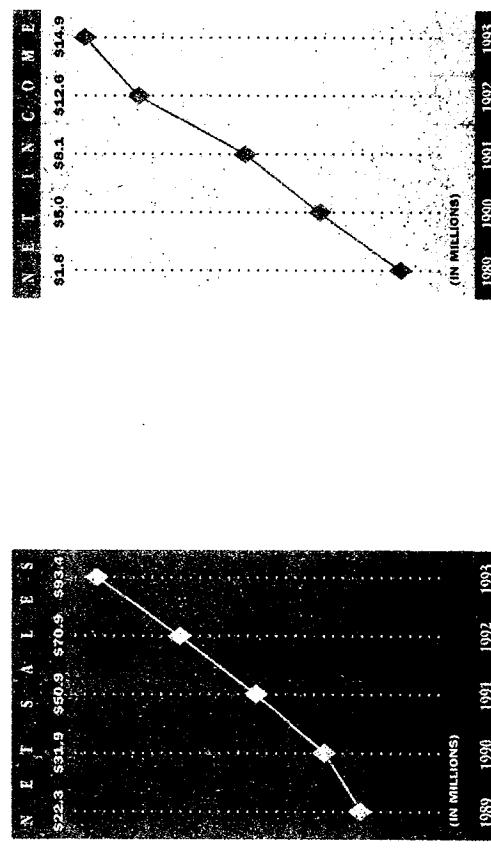
FINANCIAL HIGHLIGHTS

for the years ended September 30

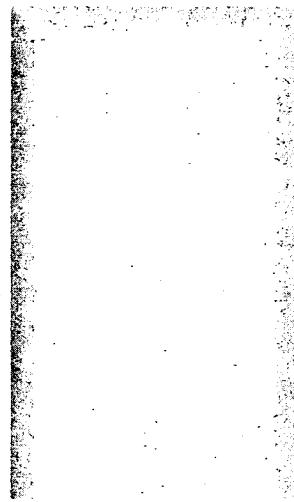
Net sales	\$ 93,385	\$ 70,867	\$ 50,866	\$ 31,902	\$ 22,251
Income before taxes	22,510	18,256	12,276	7,404	2,662
Net income	14,905	12,555	8,145	4,962	1,827
Net income per share	1.03	.87	.64	.39	.19
Average shares outstanding	14,564	14,443	12,752	12,719	9,545
Working capital	\$ 69,648	\$ 56,147	\$ 43,121	\$ 17,814	\$ 4,936
Total assets	88,859	69,788	56,403	24,712	10,544
Stockholders' equity	80,467	64,076	51,284	20,644	6,157
Book value per share	5.68	4.58	5.44	4.72	1.93
Return on sales	16.0%	17.7%	16.0%	8.2%	15.6%
Number of employees	333	266	223	164	121

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Operations and share price sheet for 1989 through 1992 have been restated for the Star Gate acquisition described in Note 2 on page 19.



1990 Annual Report
DIGI INTERNATIONAL INC.



Financial Highlights

for the years ended

	Sept. 30 1990	Sept. 30 1989	Sept. 30 1988	Sept. 25 1987	Sept. 30 1986
Net sales	\$23,193	\$14,631	\$8,422	\$3,723	\$1,544
Income (loss) before taxes	7,403	4,176	2,235	911	(260)
Net income (loss)	5,043	2,826	1,508	603	(260)
Net income (loss) per share	.123	.93	.50	.28	(.13)
Average shares outstanding	4,096	3,038	2,989	2,130	2,081
Working capital (deficiency)	\$ 17,882	\$ 4,876	\$2,655	\$1,398	\$ (280)
Total assets	21,393	7,457	4,412	2,431	522
Long-term obligations				63	78
Stockholders' equity (deficiency)	20,373	5,806	2,958	1,445	(290)
Book value per share	5.17	2.10	1.07	.52	(.15)
Return on sales	21.7%	19.3%	17.9%	16.2%	(16.8%)
Number of employees	100	62	46	26	12

(in thousands except per share amounts and number of employees)

